

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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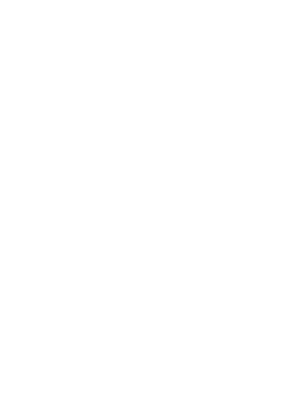
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CAMICOLOGY AND OBSTITUTES



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INTERNATIONAL ABSTRACT OF SURGERY

JULY 1927

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Blair V P and Brown J B Septi Osteomyelitis of the Bones of the Skull and Face 4nn 5 g 19 7 l

The authors discuss only inflammation or death of bone due to infection by a pus producing organ ism but three somewhat distinct clinical entities are considered (1) the roadition commonly called alterated nooth (2) frank osterus and necross of the dentigerous bones and (3) the spreading osterits and ne ross that may accompany of follow pus infection of the paramasal or para aural snusses. The reasons for including these conditions in one

group are the following

They are each essentially a bone infection and

though showing certain individual zing characteristics that pathology is basically the same the reaction differing in degree rather than in kind and the treatment for each is essentially the same 2. While the lines that demarcate the typical.

cases in each group can be drawn sharply there occur apparently borderline ases that are not so easily estalogued and the close auatomical relation of the parts affected facilitates this grouping

The general plan of good surgical 'rectiment of sample purplies to steem claim was firmly, estab lished many years ago and except as influenced by the presence of the teeth the treatment of the condition when it affects the skull and jaws differs their from that of sumple purplies to stoomy claim of any other bone. Due partly to the superior resist and partle and mouth issues to most infections and partle and mouth issues to most infections and partle and mouth issues to most infection draining us established the strength of the subcompanies of the superior that the occurring in the part will be treath outcomed the other hand be deformated. Elsewhere On the other hand be deformated the subcompanies of the commonly from ill advised surgery. Calculations of the calvarium the resulting deformatives are not marked but the disease is frequently istal.

The accepted older treatment of osteomyeliti in general consisted first in the early establishment of drainage of the focus with the least possible opera tive trauma second in delaying radical operation until the virulence of the infection had subside I the dead hone had spontaneously separated and suffi cient new bone had been formed to maintain con tinuity and in the removal at the proper time of all fragments of dead bone with hmited damag to granulations liming their beds and where practi cable the removal of all edges of live bone over hanging the bed so that soft to sue could drop into and fill these defects When this program is faith fully and intelligently carried out the disease soldom proves fatal or progressive and successful seques trectoms followed by permanent healing is usually accomplished by one operation

Especially desirable reforments of technique are those designed to saue the enstance of the issues or to protect the granulation lend ensemble secondary infection or sterilize them by six below as to look 100 Minutes and 100 Minutes of the six below 100 Minutes and 100 Minutes of the six below 100 Minutes

the rhinologists

Portiol of cit v. In the upper jaw the infection may apparently occur by any of the nasal mucosa or antum. In either jaw, it commended to the produced by blood carried to the commend to take a second in osteomyedits in other than the cult to draw definite conclusions. Commonly infected teeth are present however: Italy to the cult to draw definite conclusions. Commonly included the approximation of a tooth but in at least some of the crack ton of a tooth but in at least some of the crack to the bone infection may have caused the symptoms for which the tooth is drawn. The occurrence of the symptoms immediately after the treatment of a quescent non vital tooth suggests a pre existing perspical infection which may have been present for

year The prevent on of decay and of mury to the teeth will poss bly prevent quite a large number of suc) bone infects as

In some cases there may occur a low grade bone infection that form little pus but is associated with moe riles pain and saelling. This is ant to attack lifferent parts of the same jaw si multaneou is r consecutively throwing off a sl er of bone here or I o ening a tooth there an I persisting for a long time thout coming to any definite conclusion of without forming any very definite head for surgical attack. Meanwhile the patient may show var ous signs of intoxication. The pre sous bel ef that this type of necrosis is dependent on syphilis is not supported as few of the Wa ser mann tests in the reported cases were positive

In infection of the bones of the calvarium the paranasal sinuses are m st commo ly the portals

of entry

Ile ul erat d to il The ulcerated tooth com monly repre ents an acute exacerbation of a previ ousl quies ent periapical infe tion. The attack may terminate or be to minated in one of several ways liter two lays of suffering an abscess may perforate the bone causing the typical gum boil or less commonly it may burrow out alongside the root of the tooth The dentist may estable h drainage through a root canal or attempt to abort the process by extracting the tooth The latter treatment has the virtue of precluding future attacks and may be followed by quick recovery a more or less protracted or stormy convalescence or occasionally by death f om ge teral sen is

An older teach ng warned that ulcerated teeth sh uld not be pulled during the period of scute swelling The attempt to establish free drainage and at the same time remove the supposed focus i apt to at peal strongly to some but average results do not just fy the extra ri k of early extraction Some young or apparently robust persons vill die from g neral epsis following the extraction of an ulcerated tooth in the acute stag. On the other hand death following the conservative plan is ex tremely rare and except in young children cervical ab cess o extens ve bone necrosis is uncommon when the tooth and the bone are spared the traums of in trumentation it the acute stage of the infec

The ulce ated tooth is a culmination of an in fection that has been pre ent for an indefinite time possibly years without causing more than mild or un dentified symptoms. About the simplest explana tion s the a sumption that a disturbance of the balance bet een varulence and res tance has occurred which permits the h therto impri oned ba teria succe-sfully to atta k the confini g bar Such a period of low resistan e may be the re son why the trauma of an extra tion may not be m il i le ated at the tem. The time of pain may pos 11, be shortered by incisi a and st ippi g up of the pe tosteurs at the probable tte of per fo ation

At a later period when the balance between sir ulence and resistance has been re established in the patient's favo the extraction of the tooth will be not only safe but better surgery than the most

effective dental restoration In the subacute stage in which di comfort low fever adenitis malaise rheumatism or joint infec tions may evidence chronic infects n extraction is

usually necessary but should be d ne with caution Necros s of the jaw bones In simple osteomy elitis of the taw the need for early artificial drainag of the focus is seldom urgent but confined or pocketing collections of pus should be I berat d by internal or external incision when detected. Hot or cold applications may be used without fear of perforation in

undestrable places The very objectionable odor that may be given off can be controlled by one or two thorough irriga tions of all fistule with a 1 per cent soluti n of formalin The stinging pain may be modified by a previous irrigat on vith a per cent novocas

In most cases of acute osteomy elitis of the jaw the dead bone will usually separate itself in ninety days and by the end of that time a strong involucium will have formed that will permit removal of the se questrum 1 ithout changing the normal contour of the law In trumental manipulation of the bone of at least the lower jaw before the infection has lost its virulence is very apt to be followed by I rther

extension of the necrosis The surest way of reducing the ne essary number of radical operations to the mi imum is to allow a full three months after the original infection before making any attempt to remove the dead bone and then if the dead bone is not found t be worm eaten and surrounded by a definite bed of granula tions to wait another three months before m king a

subsequent attempt It is known that teeth and tooth buds n infected areas may retain their vitality Therefore in treat ing necrosis in a child t is best to establish drainage as and ated watch closely for kidney damag and if the general condition permits to do no raical operation on the al colar portion but wat for the fragments to be thrown off spontaneously children dead hone is not apt to b come deeply sequestrated in the tooth bearing areas as in the ramus This does not hold true in adults The pre servation of the tooth buds 1 of tremend us ad vantage. In areas where they are compl tely lo t the ne bone is ant to be short to the extent of very s rious deformity. If one first or second m far is preserved it may save ex essive retraction of the regenerated ian but preservation f the thri molar bud will not do so

Much m re di str us than the emoval of tooth buds is the complete lack of regeneration that may follow too early rem a 1 of the dead bone or an attempt to control infects a by resecting the or g a l I e hone I one known case the entire lo er jan is lacking as the result of repeated attempts of this k id and failure I regenerati n of the mandible

follo ing imple osteomyclitis has occurred most frequently in cases treated by too energetic surgery Removal of sequestra For the removal of sequestra

in the lower jaw the incision is made along the als colar process or on the skin surface along the lower border of the mandible and part way up the posterior border of the ramus from one side to the other For necrosis of the ramus in adults and for locating di lodged picules in the sigmoid notch the posterior part of the incision just described is most appro

Mer the seque trum has been exposed a curette turned toward the dead bone and not toward the involucrum may be used to slip out the fragments Before this can be done it may be necessary to chisel as ay one wall of the involucrum When the pockets are multiple they must be dealt with in dividually Bone scraping is a pernicious practice and is to be deplored even when it is necessary The curette should be used as a tractor an elevator or a tool to carre away overhanging involucrum. The search for small deeply buried spicules may be greatly facilitated by preliminary injection of the fistula with methylene blue solution

In every case every piece of dead bone must be removed or so treated that it can be discharged spontaneously otherwise the wound will not heal permanently. It is for the lack of such treatment that many cases remain unhealed for a period of

In the upper jaw the sequestra are apt to become buried in scar. It is a better plan to dissect out the scar than to try to find the individual pieces of bone This 1 sometimes true in regard to fragments in the neck that have worked down from the lower raw

Emphasis has been placed on time consuming conservatism but radical operation may be nece sary to dislodge pieces of dead bone in the body or ramus that may be encased by the living bone and remain indefinitely as foci of infection. If after the removal of the sequestrum the pocket in the involucrum is very deep at should not be left in this condition

The literature still shows the old division between those who advocate early conservatism and those who promise to abort the disease by the earliest possible radical surgery The position of the latter who are still in the minority is supported by neither new arguments nor an adequate number of convinc

ing case reports

Diff se ost omyelities of it skull of sizus o igin Most of the recent rhinological literature supports very early and radical operative treatment of the necrosis of the skull bones that may follow or accompan) paranasal sinus infections. This reversal of the more generally accepted rules for the treatment of osteomyelits is not upported by the authors

The first ca es definitely regarded as of s nus origin were reported in 800 one by Luc and one by Tilley-but before that time there were a fe reports of osteomy elitis of the skull with practically

the same clinical picture

The radical writings consist of from t elve to fifteen articles based partly on personal observation but largely on citations from an exhaustive article in three parts by Mckenzie of London Mckenzie advocated early radical bone removal as lid those following him who seemed to base most of their points on his article

The authors have been unal le to sul stantiate all

of their findings by the literature

Syphilitic cases shoul I not be recor led with these cases In the authors series there were six ca es of this type five arising from the frontal and one from the sphenoid sinus. This series i considered rather small upon which to base sweeping conclusions but of those who have so vigorously a lvocated early radical treatment none had more than four cases Twenty three ob ervers reported in favor of radical operation T enty five of their patients died Of the ti elve who are living five vere treated too re cently to be considered cured

vine observers do not report favorably on the rad cal bone cutting plan of treatment. In nine cases with conservative treatment there were three deaths Mosher added one case to the e Of the authors six patients three are living but one cannot

be considered a closed case

The authors do not accept the more modern recommendation of early radical bone removal for these cases Until more concluive evidence is adduced they will continue to apply the older rules of hygiene drainage and the removal of exfoliated bone supplementing them by measures to rai e the patient's resistance and general quartz light treat TAMES B BROWN M D

Luedd W II The Mechan sm of Accommoda tion Am J Ophth 973 x

Elasticity of the lens has never been definitely shown Heretofore studies of accommodation have been made with the idea of supporting either Helm holtz's or Tschering's theory Luedde describes accommodation in animals. In fish it is accomplished by a displacement of the lens Salamanders accommodate by use of the cibary muscle which compresses the vitreous forcing the len forward while at the same time the aqueous accumulates at the periphery of the anterior chamber lightly pressing the iris backward. All accommodation ceases when the posterior se ment of the eve i opened In lizards the mechanism is much the same except that there is a circular muscle at the base of the iris which actively compresses the lens as it moves forward In birds there is a further factor in the pecten composed of erectile tissue which ex tends into the vitreous and probably acts by increas ing pressure in that body In seal there i ni ac commodation after the iris is divided

In his original article Helmholtz suggested only that accommodation might be explained by his theory The lens is not a homogeneous mass but

has a definite cortex and nucleus and the zonulue is not a membrane but a system of cords. It is almost unthinkable that the lens could be under a constant tension when at test. Von Pfught conducted experiments on eyes rapidly frozen with carbon disorder sow while at rest and during accommodation. In spite of IFess denial the photom crographs seem to show that both the anterior and posterior central detion. We have a support of the contraction of

The phenomenon of sinking or shaking of the lens during stron accommodati e effort is explained by the thickening of the ciliary muscle du ing this act with consequent relaxation of the supporting zonular fibers However the peripheral fibers of the zonule go from the anterior portion of the lens to the posterior portion of the aliary muscle and from the posterior portion of the lens to the anterior por tion of the ciliary muscle Contraction of the muscle would thus obviously tend to thin the peripheral part of the lens. Human eyes placed in eserm solution after removal show strong traction on the choroid when sectio ed Experiments with subluxated lenses under myotics show that the lens is pushed away from the defect in the supporting fibers which would be expected if the lens were pressed upon by the vit cous

In conclus on the author states that accommoda too may be explained by the extrinsic theory and is probably the same in mammals as in birds. If in herent elasticity of the lens 1 ever demonstrated it may be fitted in to this theory, but its assumption is unnecessary.

See 1 Dec 10.

Pink rton F J Leprosy of the Eye An Analy is of the R c ds of 512 C ses of Lepro y in the Hawalian Islands A h Ophth 19 7 1 4

Hawalian Islands A h Ophih 19 7 1 4

I nkerton gives a very detailed account of h s
experience 1th ocular lepro y in the Hawai n
Island On the basi of 512 c es he draws the

following conclusions

I E ery patient suffering from leprosy ill probably have some invol ement of the eye sooner

or later

2 The eve 1 more frequently attacked in the
moderately ad need or ad need c se but the

pr m ry corneal change may occur at any stage
3 I udati e ir t is p obably the greatest si gle
cau e of blindness

4 Corneal changes s cond ty to 1 as n from no tules in the ciliary r gion and to e posure

keratitis are next in import nce in the causation of blindne s

5 Ta al fibrill t on probably precede orb cular

paralysis a most cases

6 D ection of nodules from the limbus hould

al sys be done ince it gre hope of at least a tem por ry arrest of the process 7 Internal and external tars rehaphy sadi ti ct

at I in the con erestion of the co nea

8 Atropine in the early if t s 1 mpe ative

9 Cocame instilled into the conjunctival sac is unsatisfactory as an anæsthetic in leprosy

to Leprous patients seem to be immune to the ordinary pus producing organisms

LESLIF L. VICCOV M D

Doh rty W B M Ian sis Oculi with Microscop c Findings i J Oph h 9 7 3 s 1

Four cases of melano is ocul, are reported In one an anatom cal study was made. This condition occurs in var ous races and in blondes as well as brunettes. As melanosacroma developed not sper cent of reported cases of melanosis bubb growing melanotic spots is that well developed blond supply all outil by removed. Of e patient is negro had some control of the case and a melanotic role of the case of the conjunctiva above 1 slets of p gentation spots could be seen at the limbus through the conjunctiva and there was a staphyloma at the nosal limbus. The tension of the cybeall was 57. The appearance of the cornea and ins was characteristic of glau.

Upon enucleation the vitreous was I und to be build and of an inhy block color Microscopically the I mbus was deepiny pigmented. The endothelail ager showed peginy by gimented and red cells all being to t. The spaces of Fontana and the canal of Silmem were completely filled with pigment. The cil ary muscle and processes wer finewily p.g. mented. The positror capsule of the lens was too reced with a cyclinic membrane in which were fuce of the state of the control of t

Lane L A Radium in Ophti almology A Further Study Experimental and Clinical J Am 31

o 7 lxx The author urges the more general use of rad um and the \ rays in the treatment of intractable le ions of the eye such a glioma corne l pa it es tuber cul us keratit s keratoconus trachoma etc a da more careful reporting of ases in high alum is use i In this was accurate scient fic informati n an be g thered s to the best method of us ng radium and the st tus f radi m n ophthalm therap utic The ! llow goutl ne fo uniform data n radium the peutics gi en () descript on and diagn sis of the les on t eate ! () exact data as t the mount of rad um us 1 (3) a st tement s to whether adium elem t rradium man tion was emil ved (4) the typ of ont i er of the rad um and its thi kness (plaque st el needle silver capsule platinum edle et) (5) the kind a d thickness of filte a used (6) the durat n of the exposure (7) the aterval at which the e p ws rpe ted (8) th distance at which it 12 appled (q) wher nd ho it as pple a di) the t tal dos. ge u ed

In her year of experimental study Lane paid par ticular att ntion to dosage screening immediate and remote chinical changes the effect of radium on the intra-ocular tension and hi tological changes Her experiments were performed on rabbits. The findings in silver tube experiments may be sum

marized as follows There were no permanent injurious manifestations clearly due to radium alone from 15 to 25 mc silver tubes screened with 1 mm of rubber and used for ten minutes once a week at a distance of a mm

Doses of 50 and 100 mc used under similar con ditions e cept as to time and interval were followed by more or le reaction and by changes in the lids conjunctiva cornea and fundus Histological changes were pre ent in the cornea in retina and nerve but somewhat similar changes were seen in the retina and nerve of the unirradiated eye

Following the administration of 150- and 200-mc doses there was tendency toward delayed and mod erately severe reactions The lid cornea iris and fundus structures showed clinical and histological

changes

Well defined cataracts occurre I in the irradiated and unirradiated eyes of Rabbits 1 and 6 The con dition of these rabbits was poor Each had snuffles and showed changes in the blood Each was eccen tric in its selection of food Each when the general cond tion impro ed and the diet was changed showed marked lessening of the lens opacities

An increase of tens on followed every application and as more pronounced after the larger doses Fee tually the tension returned to the normal

starting level

Control for Rabbits 1 and 6 watched over a period of five months showed no evidence of cata ract formation

Chinically and histologically there was evidence that silver screening which admits considerable beta rad ation is injurious to the rabbit eve

The author concludes from these findings that in the treatment of conditions of the human eye silver tubes have a limited place

Folloving experiments every rabbit in the series showed definite changes in the cornea varying fr m a mild punctate keratiti to an ulcerative keratiti ending in more or less corneal opacity

I all of the rabb ts given higher doses there were lefinite permanent changes in the lids conjunctiva corner iris ciliary body retina and nerve

i marked acrease in tension occurred in the erradiated eve and some orresponding increase in the unirrad ated eve of each rabbit

Except following the 5 mc dose the changes were so definitely of an injuriou nature that in the auth r opinion the use of radium in bare tubes hees not seem just hable in the human eye except under the most e ceptional circumstances

With regard to gamma radiation with gold plat mum tubes I ane reports that the reactions ere very is ht in rabbits of this series as compared with th se in ral bits in the silver and bare tube series

There was no permanent lid or conjunctival change in any rabbit. Only two rabbits showed any perma nent change in the cornea

There were no lens changes in any rabbit of the series

Following the 100 150 and 200 mc applications the changes in the iris were slight and were confined to a few small areas showing some thickening of the vessel walls and slight pigmentary degeneration

Of the changes in the retina and nerve Lane find it more difficult to speak with certainty since the unirradiate I eyes presented similar changes

The tension was elevated slightly in every in stance except one At no time were the rises as high as in the silver tube and bare tube series

As far as injury to the eye tissue is concerned it can be stated positively that the gamma radiation in the platinum gold tube series of experiments was followed by less change than was found in the bare tube or silver tube experiments

The author s final conclusions are the following Exact data as to dosage metho i of application and type of le ion treated are essential if ra hum

therapy in the field of ophthalmology is to progres 2 Experimental data from a series of six experi ments in which silver tubes vith varying strengths of radium were u ed show definite change and injury to the rabbit eye except following the use of

15 and 25 mc doses The effect of unscreened bare tubes on the rabbit eye is decidedly caustic and injurious

4 Heavily screened gamma radiation with platinum tubes appears to cause little injury to the

eye tissues except in the larger amounts 5 Of a series of twenty three rabbits treated with different amounts of radium the tension was

found to be increased in all but one 6 There 1 evidence of delayed reaction and re mote effects of radium particularly after the use of

larger amounts 7 Radium appears to be of considerable value in conditions about the lid conjunctiva and cornea and of some value in the deeper parts of the eve

8 Experience in treating patients has shown that in most conditions the best results are obtained with gamma radiation in comparatively small amounts over an extended period of time

LESLIE L McCox M D

Schwart F O Melanosucoma of the Chorold Sympathetic Ophthalm a and Retrobulbar Seuritis im J Ophth 927 3 8 35

A man of 38 years suffered an attack of a bat ap peared to be acute inflammators glaucoma of the right eye Under myotics this cleared up to some extent in that the tension of the eve became normal but clinically the eye remained violently inflamed and there was a mall mass of vello vish material which blocked the pupil obscuring the fundus One month later there vas photophobia with lachrymat on and signs of an iridocyclitis in the left eye A diagnosi of sympathetic ophthalmia was er derete betelte Oppelender Oppelender von der flatte Oppelender of the State of t

It here ell atta from time solar at mite attent it in the exproposed by the ellipse of the ellipse solar from th

Verloeff F. II. An effecti e Treatment for Sympath tic Leelti. A. h. Ogh h.). t.

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The disease is not limited to any age. The author's patients were all males whose average age was 70

years In all of his cases both eves were involved but the ophthalmoscopic appearances differed quite marked ly in the two eyes Ormond describes in detail seven eyes in four patients His article contains six very fine colored illustrations. He attributes the changes to a thrombotic condition of the capillaries in the outer reticular layers of the retina In chronic con litions a serous exudate is found but in rapid or acute chan es hæmorrhages take the place of the exudation In time solidification and contraction of the mass results but not before definite fibroid changes have been produced. This theory xplains the fact that the condition occurs in elderly persons who for the most part seem to be healthy for their age and do not show any definite signs of arterio sclerotic change in the retinal vessel

In most of the cases recorded the findings were similar via failure of central vision a tumor like formation with the retunal vessels tunning over it white areas pigmentation and subhyaloid and ret mail kamorithages. It is evident that the layer of rods and cones may be disturbed quite early since distortion of objects seems to be the first defect noticed by the patient. In some cases vision is not noticeably decreased although the ophthalmoscopic

signs are definite

The pathology rests on senile failure of the capil lary circulation in the return. The amount of evudation depends upon whether the arterioles or venules were first or mainly involved. The disturbance of vision depends upon the particular layer of the retina involved. Di turbance of the rods and cones causes the greatest disturbance in vision.

There is no marked evudation in these cases but as Parsons points out the capillaries have no corresponding years and they afford an indirect anastomous between the choroidal and the retinal vascular systems consequently a local atropic condition is represented by the white disk the failure of vision and absence of marked exudative changes.

LESLIE L MCCOY M D

Halbertsm k T A A Crater Like Hole and Coloboma of the Disk Associated with Changes at the Macula B t J Ophth 9 7

The author reports a case in which there were adtectations in the visual activity and perception of color and visual fields due to hole in the dist. This is a very rare congenital anomaly and very rarely a sociated with any other congenital declet. Most ophthalmologists of not consider that a hole at the disk gives rise to symptoms attributing any alteral examples of the consideration of the consideration

LESLIE L McCoy M D

EAR

Ulrich K. Injuries of the Ear in Basal Skull Fractures A Histological and Clin cal Study (1 rletzung n de C h erorga bei Sch delbas frakt r n) A l tol v g l S p 106 1 1

Ulrich's purpo e in this histological and chinical study, was to explain on a scientific ba! the numer ous peace time ear injuries which re emble those sustained during war. There his been and still is a great deal of difficult in correlating the amount of functional disturbance with the injury sustained the author has attempted to letermine the relation ship between the type and severity of the skull injurys and the amount of disturbance of function

The first part of Ulrich's report deals with Irac tures of the temporal bone without njury of the laby inthine capsule. In eighteen cases which came to autopsy the petrous portion of the temporal bone was studied histologically. The autopsy protocols and descriptions of the serial sections are given The findings are summarized as follows.

Lessons of the internal ear may result from basal year factures without fracture of the petrous por tun of the temporal bone. The farther the trauma from the ear the less severe the lesson in the region of the ear I no case in which the temporal bone was not uself fractured could a lesson of the internal ear be demonstrated

In the clinical part of this section of the report forts her cases in which functional tests were carried out are reported in detail. The observations demonstrate that in longitudinal fractures of the petrous portion of the temporal bone the prognoss as to function is usually good. There is no such condition as commotion laby rinth in the old clinical sense of the term.

In the second part of this report the author dis cusses fractures of the temporal bone vith injury to the labyrinthine capsule. The microscopically studied cases are reported first-three seen by the author and sixteen reported by others The autopsy protocols and detailed descriptions of the micro scopic findings are given. These indicate that fracture of the labyrinth capsule in basal skull frac tures depends not upon the force of the trauma but upon the direction of the fracture which in turn de pends upon some unknown static condition \ vari ation in the pressure of the perilymph alone cannot cause rupture of the membrane in the round window There is no known record of a microscopically studied case of transverse fracture of the pyramid bone with laborinthine destruction in hich a rupture of the t) mpanic membrane was demon trated

In the clinical section of this part of the report the author discuse is the diagnoa of labyrinhine fracture on the basis of twelve case. The case his tomes are given in detail. If it licuse is the functional tests of ficulties in the differential diagnosis between longitudinal and transverse fractures of the petrou portion of the temporal bone and the prognosi The occurrence of bleeding from the auditory canal



and dwell on the so called hæmorrhage type The latter is easil missed partly because of the mis kadne gastro intestinal symptoms and partly be cause of the paucit of otolorical signs A slight change in the color of the membram and a distinct downward sig of the superior canal wall just external to the annulus may be the only suphicant findings

It is usested that the difference between harmor rhage mastorist; and the coalescent type is due to the character of the muading organ m. The gastroine tinal symptoms result from the massive absorption of tours.

W. M. Parin VID.

i di to uno

NOSE AND SINUSES

Hirsch O The Catarrhal Inflammation of the Nasal Accessory Sinuses and Its Dagnosis Lay g & p 19 7 x 511

Catarrhal inflammations of the nasal accessors sinuses are clinically macroscopically and usually histologically inflammations of a special type

The author reports the findings in fitten cases of recurring nasal polyps with negative wishings of the antra which were operated upon The chronic form of catarthal antral inflammation was found in all cases of recurring nasal polys. In two there was a caterthal inflammation of other cavities in addition to the antrum.

Chronic antral inflammation appears in two forms one which appears on the antral walls as redematous ridges filling up the cavity completely and another in which the antral mucosa is drawn

out into a cord

Hi tologically the catatrial antral inflammation is characterized by marked ordems and the separation of strands of connects e tissue as in polyps. All recurring masal polyps are a sign of catatrial

and recurring most polyto are a sign of teatment indiammation of the accessory singles. Other signs are a verous discharge from the needle on puncture the spontaneous discharge of serous fitted from the nose a shadow in the antrum in the \tay picture and mo i important serous coryzi. Most cas so for assomotor rhunits are caused by cataerhal inflammation of the accessory, smuses

In a fe c ses the nasal polypi subsided after the removal of chronic catarrhal anital mucosa

II L WILLIAMS M D

Cone A J The Relati nahip of Acute and Chr nic Paranasal Sinus D sease to Systemic Conditions in Infants and Young Children Ld g f o to

The autho illustrates the very striking relation ship that e i ts bet een pa anssal sinus disease in young chil fren and widely diverse group of 55 temic conditions. He suggests that the exciting cause may be found in the upper respiratory tract A gr up of el ven cases of systemic di ease in

A gr up of elven cases of systemic di case in children unde is years of age were carefully studied from the rhi olar gl gical standpoint. The conditions included arthritis eczema asthma chorea bronchiectasis malnutrition anhydramia nephritis

nephrosis pyelitis chronic ulcerative colitis head ache and diabetes. These groups are discussed in detail. In many cases the clinical course of the systemic drease was favorably influenced by the conservative or radical treatment of the co-custing paranasal sinus drease and in some a complete crite resulted.

The author method of treating simusiti in young children is of special interest to thinologists. Hefind the nasopharyngoscopia a very valuable diagnostic aid. With Dean, he regards roentgenograms as anatomical and not true pathological indicators.

W. W. Patro, V. D.

Spielberg W The Intranasal Ethmoid and Frontal Sinus Operation Technique Report of Cases L) f s op 19 7 x x 11 9

The author believes that the intranasal ethmod and frontal sinus operations of Hall is the operation of choice and with slight modifications is to be preferred to all other methods in u e at the present time. He reports twenty cases in which it was performed. The technique is as follows.

A 10 per cent cocame solution is applied to the mucosa and a o 5 per cent solution of novocain then injected. The middle turbinate is pushed out of the way against the septum. Two incisions are made-one beneath and horizontal to the middle turbinate and the other 4 in below the first one The ethmoid cells are opene I with a sharp punch forceps followed by a small sharp curette anterior and preturbinal area is exposed by the formation of a mucoperiosteal flap by an inci ion from the head of the middle turbinate upward to the roof of the nose another incision made from this incis on along the outer wall as far as the piriform aperture and a third incision made from the second to the head of the middle turbipate. The flap is elevated and reflected downward and agger nasi cells are chiseled away. The opening is then en larged into the frontal sinus the floor being removed and the work being done in a postero anterior di re tion with a curette or an electric burr mucosa lining the frontal sinus is then curetted and the flap replaced and fixed in position by an iodo form gauze pack

On the third day after the operation the pack is removed an I repeated irrigations are given

This operation preserves the middle turbinate bone and leaves the nasal mucosa in as normal a state as pos ble. In other method the middle turbinate is sacrifice i in whole or in part and a good deal of the surrounding normal nasal mucosa is destroyed.

Injury to the c briform plate anterior cranial fossa and olfactory ner e filaments is practically impo sible

By the formation of the mucoperiosteal flap and preservation of the middle turbinate postoperative scarning dryness and crust formation and a long drawn-out course of postoperative treatment are avoided. substance such as lime or magnesium but to a living micro organism in the drinking water

I ollo ing the recommendation made in this report a new pipe line water supply from the neighbring station of kassuli was provided in 1918. Thereafter gotter began to decrease and has now displaced. The new ater supply has been found to be remarkably free from impurity and the containonly traces of magnesium and line and no loding

Geher II Anveni Infrect not the Thread bol 1 wind Litert not the Vessel for the ed wa Dien ee (U her ans misch Inf kill 1g dr. 5 hill es figels u tert i en wen B i wash r krankl () i s ii (A 9 6 c 178)

This is the fix reported case of any mechatron of the thy rid foll will all prison of the fir thyroid arters in Baselon are as The condition was the constituted in Baselon and the constituted the constituted are as a second and the constituted are as a second and there easily report to the boundary of the constitution of the boundary the class press us to he a him out to the bountal took two whine tablets because she noted that her neck getting the class few we also after the onset of symptoms he was admitted to the lystif this the complete syn he med see ref Basedos a disease and a bir il metaboli m of 50 per cent

Jollos mg roentgen trat latt not the glant there was clurical improvement but when the patient became excited all of the sympt ms recurred. Became of the seventy of the 'ndition only arterial ligition, as attempted. The left superir and in their nationaries credit, staff or in all the night superir and in our ratter es a week lat. I During the second operation the glatt nit learner wery much excited and could not be quited. On the filt in might she did with all of the users of a very ere thyrotoclost.

Aut pry show e I a begnaning broachopn umon a parall at him rinage; trasheobonochtis; septie a climp of the spicen tous endema and clou by welling of the but is lineys and heart and swelling of the ton, its and of the flitches in the bowel and at the base of the tongue. The thymus weighed to gm. The thy roul was evenly enlarged and megh d 1 spin. It is a failt ted the multiple foreginar of a colored areas surround d by a narrow red in gran the colored areas surround d by a narrow red in gran the of the entire grind was necessary to the control of the entire grind was necessary to the remaining and the spin of the colored and the spin of the entire grind was necessary to the entire grind was necessary to the grant gra

Vicuoscop e exam atton hove I small sharper curementelled reas of appure till er er al necessa without any cellul resection in the surr un high boundaires from the est of the glan I many places there as a I ucocyte all on the boundary between the large necrob tic areas in 1the normal gland and frequently a harmorthage margia all sone was found but never any foci of complete harmorthage infarction. There to the ighind is useful.

a good deal of desquamation. There was rather extensive cicatrization and connective issue proliferation probably caused by the rocal go irradution. The cells of the prof for ted connective issue showe I re-orptive faitly degeneration.

To explain such extensive necrosis fall, in, I gitton of the vec els in a case of Basedon guiter the author suggests that the previous ro nigen irradiation may have cause! changes in the colateral circuit in 1y increasing the irraribility of the nerves of the blood vessels

(Ray (Z)

D pay II The Laryngeal Nerves Their R I ii a to the Thyrold (1 nd S ik II J 92

The author recalls our indebtedness to such in sestigators as S mon Cerhardt Rosenbach Gra beer and Ru sel who e experimental work ha establi he I the I llowing basic facts

I I o sets of nerve fibers supply the interior (recurrent) laryngeal nerves one the ablactors (dilators of the glott), the other the addactor (fibers (closers of the gl) tits). The former activate the respiratory function of the larynx. The latter are respon bible for some prediction.

2 The terminal (bers which supply the laryngeal muscles number (50 for the adductors and 3) for the abductors Numerical distribution favors the laryngeal voice function

3 The bundle of abduct r fibers occupies a central position in the nerve

4 The abductor there are more vulnerable to pressure traums or morb i lesions of the nerve itself

f The neuronu cultr apparatus when presides over the laryngeal fun tion in respiration is apparently of weaker construction than that conerned in the production of the voci more easily disturbed than adduction

An antonivophysi logi al con i letation emplassated by the author is the superiscial phase occupied by the infe for 1 pageal nerves just before the first interest principles of the control of the waker and ducto filters 1 rst. Lontonious of the waker and ducto filters 1 rst. Lontonious of the waker all outs of the control of the contr

Impairment in lary nigeal funct in is not also as the direct result of surgical trauma. The roil on largement and sear its up nl y a very important role as causative first is in the acree condition.

Routine laryngoscopy, before operation will detect initial les ons of the abductor fibers a d thus hast in thyr idectomy by which total dysfurction of the yocal cord can be intercepted

Incipient abductor involvement does not impair the voice but may result in dyspaces on e ertion Ho ever it may be discovered only by rout ne lary ago copy Postoperative systematic study of the larynx will present the only infallible evidence that the operator was not to blame for the late development of paralysi of the cord. Postoperative scar it sue may be held a sponsible for this late paralys.

The author draws the folloving conclusion

In the thyroid problem laryngology mu t be given the opportunity of enlightening the profe sion as to the pre-operative and po toperative status of the laryn. Only thus can we be informed as to whether this organ i damaged by pre-operative nathological changes in the thy roid.

If there is pre-operative laryngeal impairment the surgeon armed ith these data ill take special care in the manipulations of the intact nerve areas

during surgical procedures

Pre-operative laryingo copy may reveal an initial abductor paralysi and thus give the clue for timely surgical interference with a better prospect of preventing complete dysfunction of one yocal cord

Such a study of the larvax ill p otect the opera tor from the accu ation of having cau ed a paralysi

hich ext ted previou to operation

In the di cussion of the report Well stated that hi observations have been slightly different from the author's in that he has found the mot common paralysis of the cord in the cadaveric position

Makes stated that the wedge shaped even ion of the anterior part of the lobes has lessented the liabil its to injury of the laryngerl herves. He emphisize dit possibility of injurin, the laryngeal nerves as they approach the encod membrane. He etted pland as stating that pure his perplasin of the thyroid pland rarely causes sufficient pressure to injure the laryngeal nerves. Such an injury is most common in the adenoma and colloid types of thyroid en larrement.

COWLEY recommended for cases requiring a tra cheotomy tube a valve attachment for the opening of the tube which vill permit phonation without placing the fixer over the air inlet

All agreed with the author that pre-operative and postoperative lary ngoscopic examinations should be made to protect not only larvngeal function but also the surgeon reputation

J EDV IN KIRKPATRICK M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

I gleton W P T numatic and Infective I exion ef the Hat the Clief Minifestations of Which Are Vi ual Di turbances Their Diag nosis and Surgical Treatm it Sur Cl im ab ti att

This article leals with a me of the author's cases in which visual listurbances were the early manifestate us of cerel rat in vl ement in traumatic an I

infective le ions of the head

The the nerves are revi well anatomically to shot their c mmunicati ns ith the base of the brain central ganglia and cerebral cortex Visual listuri an es of intracramal origin are due to gen rai intracranial ressure or fire tires ure at some point in the optic system from the nerves to the visual cort all enters or their particular association fil era The diffe ent types and I cations of pressure are

it ussed an i ill strate I with case reports

When there is a general increase of intracranial pre ure the my t striking ocular manifestation is spill edema When the papill edema is unilateral it is belie ed by some tooc ur on the same side as the k ion but this is not all ays true Vascular is turban es affecting the venous return from the ir in are apt to be as octated with marked blurring of the disks. Such con littins as hamorrhage and ing the mbosis are common causes. Decompres sion f r the r l ef of papillerdema shoul i be under taken only after the most careful consideration of all fa tors and then only by those with pecial experienc in rinul surgery

I re sure ups a the optic nerve at the optic foramen may result in permanent blindness if it is not compely relieved. The hamorrhage from fractures mmon source. In a case reported fragments is a of a lutter were remo ed through an intracrantal xtr lur lapproach to the orbit th rem valef a pa t f its roof In an ther c se frainage f the

I lenoi lal nuses transnas lly relieved a progre ing par ill dem lue to acute infection and pressure at the optic foram na In arteriovenous ancurism res Iting fr m rupture of th internal carotid artery int the cavernous inus it is best to lighte the internal o common aroti I rters

When there is a coure b t e n the optic chasm an I the pr m r. pisc centers Werns Le's symg tom

can usually be demon trated by a combination of t trume ts As the optic tra t is in intimate contact with the intern I cap ule and lescending born of the lateral ventricle hamorrhage or abscess may produce I emian ; is with or without involvement of mot ? and sensory functions

In the presence I pressure at the visual cortical center in the occif tal I be hemianopsia due to hamorrhage cast or al scess may be present but un letected for a long time. In such cases an examinate a shoul I always be made of the fie is

I ressure on the associat on f bers of the temperosphenoilal ni frontal l bes may produce visu l defects which are not detected by the patient or may fluctuate hence repeate I examinations should be male of traumate and infective lesions in the tempero phe ioi lal I be Very sight relief of pres sure may releve the defect

The author concludes b urging a more uniform ophthalmological and ctological investigation in all general med cal a daurgo al c ses

ALD RT S CRAWFORD M D

Ball R P and Spu ling R C Cereb ospinal Fluid Leak Due to a Fistula of th Ci term M gna ! 5 / 927 1 x 31

The authors report the case of a 28 year-old negro who had a stab wound in the po ten r cervical re go n exten is g from the base of the skull downward and t the left for a di tance of 6 cm. The patient was unconscious and in malerate shock wour I was trrig ted and closed with a rubber dra n in the lo er en ! The next day the shock ha i chared an I the patient s cond tion was far ly good Twel e hours after his a fml sion to the ho pital he had an attack of projectile vomiting an I some pain at the site of the wound On the third d v he h da three minute convulsion followed by head the A profuse clear serous lischarge (ce ebr [insl fl id) occurred For the next twelve lays the temporal and occupital headache continued intermittently with the tem perature between 99 and 90 8 degr es F At the time of the patient's admis ion to the ho pital the bliod pressure as 120 jst lican i 60 diasto ic On and after the thi d lay it was 160 sist Ic and 60 disstolic. The wound was slightly infected but healed t a mus track through which ce ebro p n !

flu l'escaped On the twelfth day the temperature rose to for degr es I the pulse rate to 90 an i the re pirator) rate to so When a n etal probe w s p ssel up the sinus and a roentg nogram was made the probe t p wa seen on the arch f the atl s Four hundred c bic centimeters of c retro p al fi it drained laily. The fluid was collected by means of a glass hell into the sinu by femule catheter whi h i flexible collodion At the time of the in to n of the catheter a si nal purcture siel led turbid cerebro spinal fluid w th 400 leu cyt s (60 per cent polym ? honuclars) per cube cent meter punctures and cultures howed a non hamolytic

st eptoco us staphylococcu albus and an u iden

tified Gram positive bacillus. The spinal manom eter realing in the cervical and lumbar regions was

16 mm Hg

"On the second day the temperature was 1930 of orge set. The pule rate it is and the respirity rite 28. The patient complained of he wide che and opsitus e kering sign was noted. On the sevented day the temperature pulse and remained normal. The cerebrospinal fluid drain age suddenly sloppel on the ameteenth day white the plass catheter was still, and the sum yet, severe that was controlled by septem and immittation of the fluid intake. The symptoms then gradually sudded in the patient was discharge I from the hos patid on the twenty form of the patient was discharge I from the hos patid on the twenty form of the symptom of the

In studies of the cerebrospinal fluid the intra venous injection of 20 c cm of a r per cent gentian violet solution caused no visible coloring of the cerebro pinal fluid in a period of ti enty four hours One cubic entimeter of phenolsulphonephthalein injected into the lumbar subarachnoid space with the patient in the recumbent position first appeared in the cer icil fi il drainage after one hour and to enty minutes Tifteen I er cent was eliminated in the urine in two hours. Thirty grains of methenam tna given by mouth appeared in the cerebrospinal fluid after t o hours (flui l'acidifie l'before the formal lehyde test vas postive) One hundred and twenty grains of so hum salicylate by mouth de creased the flui I output to c cm during the follow ing five hours but the vas within the variation of fluid los at the time

The authors assume that the stab wound entered the cisterna magna forming a fixtula from which the cerel rosp hal fluid framed and that on the twellth by after the injury a cerel rospinal meaniguits de veloped from a mixed infection entering through the wound

Continuous fratnage from the ci tetna was main tained by keeping the wound open. Recovery resulted before spontaneous cloure of the sinus had occurred.

Danis mentions three types of treatment for spelic meningful (1) repetted lumlar puncture intermittent drain (go. 7) continuous drainage from (a) the pind cand (b) ciettera mana, et puncture c terna (d) lateral ventricles or (e) sul ar hinot 1 pace aid (g) tringations of the sular kinos 1 pace aid (g) tringations of the sulara kinos 1 pace aid (g) tringations of continuous lariange from the ci terna magna is the best form of treatm in In four I in ca es there were three recove (e)

More h a reporte l a ca e of staphy lococcus meninguise sondary to a sacral sinus in which recovery l lloy d a lumb r laminectomy and distrage l umit r lirainage was use l because the infection was thought to have be n produced by the removal of a sacral pil indal linus

It m a tu's of the cerebro pinal fluid with iten luli nephthalein Solomon concluded that there is a fee ommunication Lets een the lumbar

subarachnoid space the cisternal subarachnoid space and the lateral ventricles but that the move ment of substances introduced into the creebro spinal fluid depend either on the circulation of the creebrospinal fluid or as is more probable on diffusion by osmotic and specific gravity effects

Smith P E The Disabilities Caused by Hypophy sectomy and Their Repair The Tuberal (Hypothalamic) Syndrome in the Rat J im M 155 1027 is x 1 1 8

For ablation of the hypophysis Smith uses the ventral approach and aspirates the gland its ue through a cannula Lither the whole gland or the posterior lobe alone can be rapidly ablated by this method

From more than 110 operations he draws the following conclusions

Hypophysectomy produces an invariable and characteristic syndrome in the rat the chief features of which are in inhibition in growth in the young animal or a loss of weight in the mature animal atrophy of the thyroid suprarent cortex and sex organs weaknes a and cachezia. The animal survives for month

The desbilities arising from hypophisectomic can be completely or early completely cured by daily pituitary. hometrangplintations Intrapertiones injections of subjectivated injections of subjectivated injections of subjectivated injections of subjectivated injections of subject extract (supersension) made from or pituity ries prepared by the method of Exans and Long do not 1 pair the attophise thysiods supraceal cortex or sex organs and prevent repair of the sex glands by pituitivity transplants. Scharge around the study of the subjection of the boxine fluid.

Vies in of the hypothalismic region of the brain fuller intercump, rue rise to a syn frome distinct firm that cau i l ly pituitin ablation which is characterized by extreme obe inty and attophy of the genital system the thyroids and the suprarenal cortex do not underso strophy. In certain cases the tall length of the animal may be reduced in other cases it unstituted in the constitution of the constitution of the con-

Sekiguchi S and Oije T Vagus Tumor Neu rinoma Sarcomatodes (B tr g zum Vagu tum Vun m r m tod) 1 h f kin Ch 9 6

Tumors of the vagus are exceedingly rare. A 30year old man d. covered a small nodule in the upper part of its neck on the right side. Pres ure on the no lule brought on a severe attack of coughing Medical management for a consi ferable period of times va unsuccessful.

Linder local anexthesis a spin tle shaped tumor measuring 57 by 17 cm was removel from the region of the right vagus. Except for parally is of the right recurrent laryngeal nerve there were no undavorable sequelae following the operation. It tological examination of the tumor showed it to be a neutrinoma stromatodes.

Ball nce Sir C and Colledge L Ginematograph
Demonstration Effects of Nerve An tomosi
on the M ements of the Vocal Co ds and
D phrigm 1 c R y S c M 1 L nd 9 7

In a dog the phrenic root from the sixth cervical nerve on the right side a digited the provimal end united end to end vish the recurrent laryngeal nerve and the distail part anastomosed end to-end to the descrend as noon nerve. On the left side the entire timal of the phrenic was divided and united end to end with the recurrent laryngeal. In order to add to end with the recurrent laryngeal. In order to all the corresponding that the property of the corresponding that of the data primary has of the corresponding divided and the protunnal part united to the di tall cut end of the phrenic.

Miter the operation the dog which had been cleeted because it barked incressantly did not bark for three mouths. Recovery was gradual and at the time the authors demonstrated the animal it barked as 1907 usly as ever. The right cord moved more actively than the left because the anastomo i was made several months earlier on the right side.

The diaphragm hal entirely recovered from the

In a monkey the di tal cut end of the recurrent laryngeal nerve on the right sade was united to the side of the phrenic nerve On the left sade the proximal end of the sectioned phrenic was united to the distal cut end of the recurrer I laryngeal Both vocal tords recovered movement and the monkey revenued the ability to batk

In order to prevent permanent pratalyss of the depressor mu cl soft the larps sternohy, out tenot thyroid and omohyoid after division and anastom was sof the descendens none, with the phrenic the authors extend and suture the distal part of the authors extend and suture the distal part of the decendens none high has a tortous course into the side of the hypogloss I nerve. They have made this visit of the hypogloss I nerve. They have made this mast times and always successfully with recovery of the movement and function of the depres or mucles of the hyp of bone and larynt.

A oman age 1 52 years was operated upon for thyrod dise s in 19 Barnes who first saw th patient in M v 1020 fou I aph nia and se e e dysp on Tr cheotom, had not been performed The vocal cord vere completely paralyzed and when deeper respiration than normal was attempted tended to come togeth r On June 5 1926 Ballance un te i the recurrent larving al nerve (which was deeply invol ed in the scar) to one third of the ph en c nerv On m nth later the left side was treated simil is Seven weeks after the fir t opera tion the tone of the right co d showed definite im prov ment E ght veeks later the haphr gm was still paralyze i on both le At the time of the re port the pat at had will marke I m vement of th n ht cord the rytenoid on left could be seen to move The d phragm recover d on both sides

The authors emphasize that par 1331 of the o all cord may be cured by anastom 1 of the recutr nt 1 ryngeal erve with the phreme nerve that di

phragmatic muscle paralysis may be referred to uniting the phrence to the descenders soom and that paralysis of the depressor mu cles of the hood bose and larynx may be cured by end to sade union of the cut-end of the descenders soon to the lower side of the bypoglosal nerve Ballance de as not climb in man every function of the cords is restored after these operations but believes that in the future laryt gologi it will have no excuse to leave paralytic vocal cords unitested. Wastra C Regent 190

SPINAL CORD AND ITS COVERINGS

Learmonth J R On L ptomeningiom ta (Endotheliom ta) of the Spinal Co d B i J S &

Learmonth has made an extensive study of leptomeningiomata of the spinal cord which have hitherto been called endotheliomata or psam momata II s discussion is developed under the following heads. If storical introduction development of the aracl noid structure and relations of the adult leptomening incidence of leptomening omata occurrence with other tumors path log cal anniomy et ology pro s patholosy microscopic appe rances clinical physology of the spin 1 c rd pathology of compre ion of the pinal cord general cl nical fea ture of leptomeningiomata leptomening mata in special's tuations di turbances of vesical r ctal and sexual funct ins acce sors a ds to di gn is deter min tion of the level of the tumo d fferential da nosis operative treatment and p ognos s

The h stories of five cases are guen

PERIPHERAL NERVES

Koch k Does Prim ry Uni a Occur Ait r Nerr
Suture? (Gbt e e 1 lnm no h N
ht?) R lid kr gr k g 6 1 93

St tistice w th rega d to the results I nerve as ure difer gree it v S me surgeous rep rite h in op per cent of their cases white oth rs obtain on he imag and once improvement in mily operated as the control of their case a nerve will suppletely recover (lb in suture while in an there is en which the sume technique; it is not toon in our restor? Koch attemptel to determin by e per ments on the scale on error of rabb is and to such whether conduction can be error in a few days.

On the basis of h h stolog al fi d es he concludes that the art tons in the re lits f a rissure are due to the occurrence in the r gon fth sutu e mater 1 of s co dary changes hich intricee th the gro th of the del at hibr land c m pr m e the su ce s of the ope t n

H c n lud s also that union by prima ; intent n does not o ur aft r n rve sut re Even under th

does not o ur aft r n rve sut re Even under the mot f v rable cond tions when only single n e bundles er cut and mmed at h re unit is d the field was kept moi t with phisiological salt solution the healing could not be histened. Regeneration is impossible without degeneration and this requires a certain length of time which cannot be shortened. The quilk restoration of function in some cales is

due to the pre ence of collateral nerve paths
both recommend not a sumple transnerval su
ture but esact perneural adaptation of the nerve
end in order that no nerve fibrils remain outside
of the his of suture Very fine silk should be used
for the suturing and great transna should be a solded
for the suturing and great transna should be a solded
in reprected by hoch as directly injurious
very
suture can be attempted after the lap of several
years Regeneration has occurred even after three
for lour verys.

114vt (Z)

MISCELLANEOUS

Carnett J B and Winkelman \ W Metastatic
Tumors of the Nerv us S tem S g Cin \
im 10 \ 4

The authors report the ca e of a colored woman who first di covered a small hard lump in her right est in 1924. A lew months later a cancer quack applied a caust c paste which produced an ulcer

No other treatment had been

th t never healed

Ner a bath three days before her admission to the ho pital the patient complained that her feet elit child and numb. On the following morning she was unable to stand because of weakness and comflyined of numbness and needle st claims. In the days of the complaint of the complaint of the hope of the complaint of the complaint of the pital received and the time of her admission to the hop pital received as the time of her admission to the hop pital received as the complaint of the right because and complete paralysis from the fifth or sixth thorace vertebra do inward with blad der and rectal incontineence. The 'ray sho ved

cru hing of the fifth sixth and seventh vertebrac Thes deen onset of paralysi with \ \tax ev dence of triangular compres on of carcinomatous vertebrac at the same level; often interpreted as imply

ing that the paral) sis occurred simultaneously with the crushing and is due to direct compre sion of the cord by the deformed vertebral bodies

Po (mortem unestigation of Carnett's cales of paralysis has shown that as a rule the lesson is due to a metastatic extradural tumor which may act by directly compressing the cord but more often merely shuts off the blood supply of the cord.

The patient whose case 1 reported vas given heavy radium treatment over the fifth to eighth thoractic vertebre. Two weeks later she began to improve and is now able to walk. Bladder and rectal control has completely returned and she 1 free from pain

It is well known that the spinal corl may escape injury, even when there is marked eleorimity of the pine. In other cases there is weakness or paralysis below a given le el without demonstrable mother ment of the spinal column. In a third group there is most limited in the spinal column. In a third group there is muttling of one or more vertebut a without deformity but with clinical evidence of a partial or complete transverse lessing.

In the case of a patient with carcinoma of the prostate who suddenly developed paralys below the tenth thoraci segment autops; revealed a flat etitadural adenocarcinoma extending from the seventh thoraci verticals to the conus and softening of the seventh to another words and softening of the seventh to another spiral cord segments due to blood ves of occlus on by the tumor

This effect could not have been produced by the pres ure of the flat tumor. It is a due to compres sion of the blood ves els supplying the co.d. An other case showed a gelatinous mas surrounding the cord, it is not compres ion but with oftening of the cord due to blood vessel occlu ion.

Four cases of metastatic involvement of the brain and its membranes are described briefli. (2) a metastasis within the substaince of the brain itself (2) blood stream cerebral invasion (3) a metastatic nodule underneath the dura pressing upon the energing roots and (4) an isolated easily removable tumor. Haray C Sautrastin MD.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Bland P B Infection of the Lactating Brea t

Bacterial invasion of the lactating mammary, gland in hide not frequent is not uncommon. The polonud physiological activity, on the breast during the initiation of lactation and in conditions at sing during such as a brassions or fissures of the npile and uncleanly management of nursing are the chief pri kinnoun factorial and the chief pri kinnoun factorial.

According to Nunn infection of the breast occurs most often in the first two months of lictation Fitz Williams attributes it to the net conditi ns imposed upon the breast. It is produced in the tenth month by the trauma inflicted by the infinit s in

cisor teeth

The bacteria chiefly responsible for such infections are staphylo occus albus an laureus. In a series of roo lactating breasts. Rostlin found only fourtien in which cultures of the milk were sterile in the remainder they shot od staphylococcus albus and varying numbers of other staphylococcus thus and varying numbers of other staphylococcus types and strentoroccus.

The portal of entry for these m cro-organisms is a weak prote tive epithelium of the n pple and lyacent tive. The entrance of bacteria into the purenchisma of the gland is favored by fissures abrasions blisters and maceration of the entitlelium.

Autogenous infection the most common form is due to the constant presence of bactera in and about the nipple. Exog nous infection is caused by o gan isms conveyed to the pple from the sal vary exitons of the infant with stomatitis or by uncleanly management of nursin. Hamatogenous infection occurs in py again and purper! I septiceming.

According to Lee ne and Lan rimant. Web 1 g has Deaver McFa la d a d the author the frequency of inflammat ry disease of the breast vartes from 5 per cent to one half 1 per cent Kohler and Deiss found breast infe tons moe fre quent in primiparse. Winckel found involvement in both breasts in 16 per cent of his cas s but rarely

s multa eously

The eare two types of inflammatory involvements (i) subculaneou and (i) inflammany. The subculaneous type beginn g as a lymphanger may under go resolution of develop into a compart of the compart of th

eek if localization occur and adequate treatm nt gi e The diffuse gangre us type howeve has

a very high mort lity

The author recommends prophylact c measures during the latter weeks of pregnancy such as cleans ing of the b east daly with tincture of green soap and arm nater followed by the application of a g easeless cream He adv ses against the outine use of dehydrating or astringent solutions as he believes they I vor ab assons and fi ures (au e cleansing of the baby a mouth is no long r practi d in his case a pecial electric pump being used instead Inverted nipples sho ld be gently elev ted digitally or by carefully applied suction appar tus Nu sing should be interdicted if abrasions or fi res at pear The so e mpple must be kept cl n w th wa m boric solution and protected w th sterile gau e moistened with sterile olive oil Engargement m ; be rel ev i by the breast p mp Over d stended or pendulous breasts shoul i be supported by a care fully fitted binder. In the presence of infection in one breast every precaut on must be taken to pre

vent contamination of the other breast. The treatment of frank infection c ns sts in the application it is bag intermittent! for from for it ght i event to h us if no impowement of from the treatment of the properties of the pro

Juengii g O Is Prophylactic Irrad ati n J sti fied Following Operation for Ca cinoma fibe Brast? (1 t 1 p ph 1 kt sch N hbe t h m N mm a m b ht 1) St II th p o 6 653

The pr blem of the ad abilty of poph) letter postoperth e radiation in care man of the breast requires for its a bit in a thorough study of the blooky and progen so in mammary ca cinoma and a compart o of the effects of proph) letter irradiation for no both the qual tat; and the quant tative aspects. The stat sites of the result as enhance in which the figures are calculated over quality, in the contraction of the progenitary of the manner in which the figures are calculated over quality. The progenitary is the state of the progenitary is continued in the state of the progenitary is continued in the state of de el pm 1 at x high the carenious convenient all play a role.

exercisions comes under treatment at pay a time. Fo the cla sification of the 1 on into st ges (Steinh ! Lindenberg Inschuetz) heme ba ed upon objective fi dings must be constructed. The following di on is recommended.

Stage 1 Tumor limite I to the breast substance no palpable gland

Stage 2 Tumor no longer freely di placeable palpable glands

Stage 3 Tumor adherent by cancerous tissue to the surrounding structures Stage 4 Infraclavicular and supraclavicular

gland invol ed metastases to the skin In addition a standard method of calculating the

results is necessary Percentages based on small numbers of cases are to be avoided The shortest period of observation should be between three and hie years Statt ties should contain only absolute number The percentage should show the relation of the number of surva ing patients who are free from recurrence to all patients treated according to a definite method (relative figures on results) or to all cases entering the hospital during the period of time under consideration (absolute figures on results)

Following this general discussion the author cites statistics from different clinics which show the most varied results. On the basis of these figures he comes to the conclusion that worth hile results can be obtained only by repeated irradiation with medium dosage. He emphasizes that postoperative prophy lactic irradiation is still in the experimental stage and is not a method for the small hospital where the staff may not be sufficiently experienced. An under stan line of the procedure is to be expected only from methodical work continued for many years. I ro phylactic postoperative irradiation of carcinoma of the breast can become a general procedure only after a definite technique has been found by different workers to be safe and effective

SIL ERBERG (Z)

Hotfelder II Is It Justifiable to G ve Postopera ti e Irradiation in La cinoma of the B east? il t de po t p t e Bestrahlu g beit M mma m be echt gt?) Stahl th p 1926 vis

I urely surgical results in carcinoma of the breast cannot exceed a certain optimum and are not sufficiently good to warrant sati faction with sur gi al treatment alone Prophy lactic measures may be h pense I with only in early cases. I rophylactic roenteen treatment may cause mours if the effect of the rays is too strong

The re ults of operation are unsatisfactors and will probably rem in so s ith the pre ent technique lectuse the regional lymph glands are only part ally a ce si le to operat on. The lymph gland in the tilla m st be removed by careful anatomical de section follosing sacrifice of the pectoralis major muscle from the removal of the supraclassicular gla i mak the operati n much more extensi e n i ilicult kem aloi the i mph ki nd in th g n f the inte al mammars arte s whi h are

in Ived early when the premary tumors estuated in the oner qualrant of the breast a practically al was mpos ble Meinert using the Spatisholz method of making frontal sections through the re

moved breast has shown how far the cancer nest may extend from the primary tumor and therefore how seldom an operation is truly radical. The necessity for the improvement of surgical results by prophylactic measures to prevent recurrence is there fore evident Of chief importance however) the manner in which the irradiation is given

While the direct effect of the roentgen rays on cartinoma cells is incontestable it appear improb able that all of the cells of a cancer are destroyed simultaneou ly by any one dose such as the so calle l carcinoma dose. If the rest tance of the body is still sufficiently great active carcinoma cells may be destroyed in this manner together with cancer cells left behind and already damaged but in other cases even the most intensive irradiation may fail to cause

The difference in the length of the latent period between operation and the first sign of a recurrence may be explained only by the assumption that early recurrence is caused by active carcinoma cell which were left behind while later recurrences are produced by carcinoma cell which remained inactive in the tissues for many years without any metaboh m of their own until for some unknown rea on they be gan to gros

According to chinical experience the latter type of ca cinoma cell i far les sen itive to the roentgen rays than the fully active carcinoma cell but be cause of the mactivity of the r metabolism the resting ells are unable to recover from the effects Therefore it may be assumed of the irrad ation that numerou small roentgen do es given it proper intervals may eventually damage the type of cell The results at the kiel Clinic are best explaine I in this Nav

Truly successful irralition treatment renders local recurrence a rare exception and a limited only by case in which death re ults from metastases The formation of di tant meta tases is prevented most surely by pre-operative prophylactic \ ray treatment since it is as umed that a pread of the carcinoma cells occurs either before operation or t favored by operation. Po toperative prophylactic irradiation is gi en primarily to prevent local recurrence

According to experience to date it is probable that fully active carcinoma cells are most injured by the largest possible doses given at short intervals while the ma tive cells are most injured by much larger doses Because of the irradiation v centibility of the sur ounding normal cell the latter must be given in relatively small divided do es at very long inte tal

As the elatively large doses may damage not only the normal cells but also the general p otective powers of the body a method mu t be foun I which ill elu e u h damage to the minimum without reducing th beneficial effect of the ray behaves that the poor re ults obtained in th Tuebingen Clinic may be explained by the assump tion that in the irradiation of large fields and the use of large deeply penetrat ng do es of the rays the general pr tects e pos e s of the holy were too greath damaged This disa hantage is not pre ent in the method of Hans Meyer employed at the kiel Clinic in whi h small fel is are irr d ated and an alu mi ium filter is employed. On the other hand the u e of lahtly filte cl rays in a lo e eventually amounting t f ur erytlema I ses s recommended by Juengling is asso rate 1 ith great clanger of injury to the skin an I with the smill field technique t 1 very improbable that e ery area of the chest

wall recci es the same lo e Holfel le then describe his techn q e which gives the same unif rm do e to the ent re en lange lares neful ng the axilla an i supracla ui r [s a while it pares the rest of the boly e pecially the thoracic organs In the flanking technique the che to all and the ent endang r I a ca are treated with large d es of h r l r s through large tangents l field The de ter laver t cer e exactly the same d e stleskn while the lung an I heart are com pletch protect | The letermination of the I se and the length of the intervals between expe ures depend to a larg extent upon the p tient's gene il condition At any r te it is no il le to gi e fou or five erythema dose with ut injury to the skin or ge eril con tion. The me ha thum i exclude l fr m the irradiation on principle for fear of c usi g too great general mury His ever then the pri mar) tumor: s tunted in one of the inner quadrant the glandular region year the internal mammars gi en pecial attention

The formant cauce cells are most likely t be lestroyed and a late recurrence prevented then th this te hin que one half an erythema dose is even at increasing intervals of four six eight and ten veck and regated from eight to ten time. For te ur en es leveloping soon fter operation and for still manife t cancer rests it i be t to pi e fr m So to \$20 per ent of the erythema lose mmediately and then after a peri I fit o month to give the treatment just described but hortening it by t o irra liations because of the n evious erithem do For re u rence al eady pre e t II lielder recom me d the prophylacti tre tment d ser bed with half do es the ugh mil sharply reumser te i fields an 1 s ppleme to 1 by inten ve ral ation

In c nelus n the autho emph izes that clo c operat n bet en tle rg nan I the ro ntgen ol gitı e talf r goot result II M (S)

Anschuet W and Hellmann J The Results of Irradiation After Radical Ope ation to Ca inoma of the B ea t (L be d Ff ig d N h M mm beth a dil m) Dihzîhîch 0 0

Subdiv n f Steinhal's econd grup of ca es of carcinom of the beat gie the foll ing las i ficatt n

Gr up r Tumo not dherent no gland p l pable and no gl nd in olvement fou d at oper tion

Croup 22 Tumor not adherent but glands pal pated or found involved at operation Group 2b Tumor adherent to the skin or pectoral

fascia gland involvement

Croup 2c Tumor frmly adherent to muscle gland involvement present. In this group belon also cases vith broad leep skin ulcerations

Group 3 Tumor adherent involvement of supra

clavicular glands In a fe cases with skin metastases ral calop ration was done

In the opnon of inschuetz a classification based upon the histological demo strat on of car cinoma of the lymph glands (Juengling) is less lersible as this lemonstration is difficult and un certain Anschu tz recommends ju Iging the results of treatment not by the often uncertain demo tra ti n f recurrence or metastasis but by the duration of I fe since recurrence an I metastase may d appear or remain quiescent for a l n time

The authors give their statistics f r the years 1909 1922 These show such favorable results from postoperative irradation that at the Kiel Clinic the treatment will be continued in the future and will The most definite re ults were blamed in Groups

be given al o in cas sol Croup s

22 an 12b In Cour c the results were unfavorable In Group 1. all of the pat ents-se en who did not receive irradiction treatment and eight who re ceived such treatment-were alive after five years In Cr up 2a thirty six (50 per cent) of e enty t o not ents who were not irrad ted and m ety nine (7-7 per cent) of 138 who received irradiation wer alve after three year and twenty mor (40 2 per cent) of se enty two who vere not urad ated

and 1xtv five (565 per cent) of 115 v bo vere i radiated i e e alive afte fi e years In Group 2c seven (24 1 p r cent) of twents mn who were n t irr d tel and se enteen (36 t per cent) of i revise en who wer arrad ated ere live after the eyeurs and four (3 7 per cent) of tw nty nine ho were not irrad ated and six (16 1 per ce t)

of thirty seven i ho were irradiated were al ve after fi e ver 3

d se

In Group 3 two (25 pe cent) of eight who were n turridiate la d six (27 2 per ent) of ti nt; tho ere traduated e e al ve af er three vears ad ne (2 s per ent) of e ght who we en t midiated and tw (o 5 per cent) f t ents one who were irr diate livere live fter five veurs

The letter results obtail It these case a compar I ith thoe how by othe t tistis for p st operative rad tion tre tment are sinted t the technique-not ma si e l mph doses but frequently rep ted i ker i ses Th follow ng procedu e is ecomme ded F posure of three feld (breast a lla and supracla ular (s) e ery four weeks s r e teatme t t g gi en in uccession the pau e of two r three m nth n reasing to fur or a m nths Teatment c nt nued pt the e d of the ond year n ll ten or l ven irradia ton At very itting two third of the yth ma G INEY (Z)

TRACHEA LUNGS AND PLEURA

Hamilton W F Non Tuberculous Pulmonary Dise se t & S & 927 1V 219

Reports from various sanatoriums show that patients with non tuberculous pulmonary di cases are frequently sent to these institutions and con statute from 25 to so per cent of thore admitted

The pathological le ions in the chronic cases are practically the of bronchitis and fibrosis with bronchiecta is and areas of bronchopneumonia vary ing in ize. In many cases the pleura is involved and peripronchial ad nitis un loubtedly exi to i hile more or less 11 spread emphysema is induced

The phy scal signs in non tuberculous pulmonary diseas are those of bronchitis of one or a part of one lower lobe or of both lo er lobes rarely are the e sions found in the upper labe. The si as are per istent yet variable I ater the signs of emphysema may develop. The roentgenograms show varying degrees of fibrosis Constitutional symptoms of tuber ulous infections are in the main absent while tubercle bacilli are constantly absent from the sputum A diagnosi based on the bacteriology has been preed but the is obviously extremely diff cult

Tive cas are reported The late results in these as well as practically all cases of the type under consideration depended not only upon the extent of th primary injury to the pulmonary ti sue but also on the frequen y of recurring and superimposed infections the type of the infection and circulatory disturbances which in not a few instances were caused by toxeemia and overwork impairing the efficiency of the heart muscle and increasing the dyspacea cough expectoration and signs of chroni bronchitis CARL R STEINE M D

Lemon W S Vinson P P Gaarde F W Moersch II J and Harrington S W The Inte nist and the Surgeon W

X 10 Q The authors report that broncho copi examina

tions were required in to of the cases seen by them in 1025 Foreign bodies were found in seven These examinations were decided upon for four reasons (1) for greater precision in the diagnosis (2) to estable h the surgical indications (3) to allow direct local treatment and (4) to clarify clinical impres sions a to the caule of certain familiar symptoms in liseases affecting the lungs and bronchi

Broncho copic examination can be made witho t any di tressing symptoms even then the patient is very ill The average examination requires not more than fi e minutes and can be made easily under local anasthesia. The laryny phary iv and bifurca tion of the truches are anasthetized with a 20 per cent sol ition of cocaine There is no po toperati e reaction

This report is based on minety nine cases divided into four group (1) the e of suppurative disease (2) those of pul nonary calculus (3) those of chronic

infection and (4) the e of neoplasm. The various types in the e grouns are illustrated by case histories In many of th cases of bronchectass pulmonary tuberculosis would have been at least strongly sus pected if the bronchoscope had not been used Brorchiectasis is much more common than has been suspected and hamorrhage is found more often in bronchiectasis than in any other di case of the lung Obstruction of a bronchus was well illu trated in a case in which breath ounds became clearly audible after the aspiration of very thick pus from the affected bronchus

In some of the cases in Group 1 the extent of the lesion was evident only on bronchoscopic examina tion When the symptoms and signs pointed to bronchiectasis on one side bronchoscory ometimes tevealed a lesion on both. In many cases a differen tiation from pulmonary tuberculosi was no able by the method alone. In one case in which the history and pro ression of symptoms were highly suggestive of phthisis the bronchoscope reveale I a small frag ment of tooth lodged in the wall of a bronchus and a complete cure follo ed extraction of the particle

The bronic infections sere tuberculosis and syphilis Tuberculosi may cau e stenosis by in trin ic di ease of the bronchis or by extrassic pres sure The authors have observed that strider is more marked the nearer the le ion to the larvay In gumma of the bronchus anti vihilis treatment practically abolished the synt toms

Both benign and malignant tumor were encoun tered There was only one case of the former and the removal of the neoplasm by diathermy resulted in a cure. The tumor was an adenocarcinoma. The advantage of bronchoscop in such cases hes not only in direct inspection of the tumor but also in the comparative ease with which a portion may be removed for microscopic diagnosis and the precision with which treatment can be given when it i pos ible

Singer J J Bronchography Injection of Iodized Oil 40 fer Cent 4 ch S g 0 7 mv 167 Tucker G Te i nique of Bron hoscopic Intro

duction of Bismuth Subcarbonate and Iodized Oil 40 Per C nt for Pneumonography ir h

Surg 10 m 75 Ballon D H and Ballon H C Pneumonography with Iodized Oil 40 Per Cent by the Bron choscopic Method The Bronchial Tree with Obse vations Made from 100 Injections Ar I

S t 1917 x 184
Stewart D A Septic Conditions of the Chest
Etiology and Differential Dagnosis A h Archibald E W The Value of Indized Oil 40

Per Cent in the Diagnosis of Pulmonary In fections 4rch 5 8 19 21 200

SINGER In the study of the roentgeno roms of the chest of a patient who has had a bismuth or barrum meal for gastro intestinal study the roent genologist occasionally encounters a startling picture of the bronch outlined by barium This is due to the format on of a fistulous tract by ulceration of the mophagus into the traches

There are five methods of introducing todize I oil

to per cent

Through a trocar needle resembling a tracheot
omy tube into the trachea under precautions for

2 Under direct lary ngoscopic examination with the satient lying on the back vith the head extended over the table

3 Through the bron hoscope introduced directly into the $l_{\rm in}$ g

4 Through a tracl eal catheter intro luced up ler indirect illumination of the laryng

5 By the injection into the pharmax of 20 c cm of oil hile the patient pull out his tongue as far as possible

The pat ent should be trained to take many successive deep breaths following the injection of

the oil

The to lixed oits use I in the author's cases were fuji tol (LiAs) 1 is the containst 40 per cent of to I ne it is weight combined with poppy, seed oil and odopin which contains 40 per cent of to line by eight combine I it hessame if Whitever method of intro buctions used appositionally from 20 to 40 of intro buctions used appositionally from 20 to 40 of intro buctions used apposition and propositional forms of the contained of the contained and the contained are described in left-seed and the contained and the contained are described in left-seed and the contained and the containe

The value of bron h grat hy les in the lefinite mapping out the legistructure e ther normal or altered by pathologic I conditions. Con dirable experience is requied to interpret the shalows

espectally with so len or o opaq e a sul stance. When comi nel with a careful physi a lex mination bronchography is of great and to tho e who he was a coast letal? e per nice with suppurative lung co ditions. It should not let u d in any cae in which simplet metho? can be employe? It should referent with any abnormalities.

present and when properly employed it is harmless. The first method is recommen led for children the fourth and fifth methods for adults and the second and third methods for adults and the second and third methods for the property of the fifth method should be tried in adults before the more completed method are attempted. It it is unsuccess? I the

fourth is the method of cloice

Three roentgenograms are shot in TLCLER The introduction into the lu g of the radiopaque substituces bismuth subcarbonate in douted oil 40 per cent for peumonography has been found ha roless when limit d quantities of the substances are used. The substances are readily coughed out and during the roopours in the lung have a medical Value.

The bron hos op method of introduct in permits a fire t examination of the trache and of the main bronching each lobe of the lung. In add to not its diagnostic value the bronchoscopic method permits the removal of obstructing secretions and granulations and when an organic stenos of the

I ronchus is pre ent allows the introduction of the radi paque substance by sight though the steems into the p tition of ling d stal to the narrowed bronchus. By this methol the sul stance can be accurately placed in any desired portion of the lung and a positive pneumonogram obtained with the minimal quantity of oraque substance.

Thismuth subcarbonate when insufficied bron Plasmuth subcarbonate when insufficied bron choscopically after thorough app attention of the serie borochal sail and love outline the iracheal and borochal sail and love outline causes of the farget broneth Iodized of grates causes of the farget broneth Iodized of grates are after the periphery of the lung and cause which the abscess cavity communicates with the smaller broneth. The cavity should be a puraled as free of pus as po sile breause aith, gh lodged old 40 per cent will dip place are in the easilts.

ill n t so easily d place pus that fills the cavity completels
The tech ique of the pro ed re is described in detail. Several case reports are more to direct the

detail Several cast reports are in to illustrat the difficulties and a lyantages of the methol. The article contains six roentgenograms and se eral illustrations of instruments. Fucker draws the following conclusions.

The bronchoscopic introducts n of opaque

sub tances into the lu g for pneumonog aphy is safer for the p tent and more accurate in its localization than the intriluction of such substances by blind in thou

2 Bismuth subcarbo are mouffl tion as ongo nate! by Jack on ha go on the b st results in out I ming the traches and larger b onch; and in b on chieftatic ilnt tion in the larger bronch;

3 lo lized o l 40 per cent is best in abscess ca

ities and in the pe phery of the ling

method.

4 The most accur to pin umon gr m is obtained by the b neh scopic introductin of the pigasubstance on the Suoros of citable. The entrane of the opaque substane is observed fluoroscopically and the plates are made about the transfer of the patient to another table.

BALLON This article rej o to observat one following injection and dis ections. Only observation

which may serve as clinical aids are recorded.

The bronchial tree was injected dining life with todized it to per cent by the bronchoscopic

Dissections in fresh specimens wer mid under ter In the autopsy pe mens both sodium is dide ti per cent ind nodized oil 40 per cent we sued to inject the bronchial tree but were found to give po results. The bl oil was not cell did not such that the support of the bronchial tree is the support of the support of the bronchial tree is as then inj cted with paratim and its relation he pto the cur! I to not till fell the support of the cur! I to not till fell the support of the cur! I to not till fell the support of the cur! I to not till fell the support of the cur! I to not till fell the support of th

The fun 1 ns and characterists a of the bronchial tree are considered. The fucus on includes general considerations anatomy the surface markings of the lobes the relation of the circulation (including the lymphatics) to the bronchial tree a dabnormal

ities of the bronchial tree Studies of the respiratory movements made on separate roentgenograms are

also reported

Observations to be made while the patient is being prepared are enumerated. Certain diseases of the bronchial tree are discussed and classifications of bronchiectasis and lung abscess are given. These are illustrated by drawings and rountgenograms.

The following are discussed the effects of thoracoplasts on the bronchial tree factors that affect the 80 and distribution of todated oil the roentfein ray report on the bronchial tree the value of postural dranage the intrabronchial route for the application of me lication abnormal shadows and the choice of patient

In the lung subject the bronchial tree was in jected with oldered oil ap per cent by the broncho scopic method in postmortem specimens it was sujected the parafin. The blood was sujected with barnim subjilate in gelatine and its relation to the bronchial tree considered. The physiology of re piration in the normal and pathological lung was

Lung abscesses vere clas the I follo ing studies

made after the injection of 10 lized oil

At various age period the appearance of the normal bronchial tree after the injection of iodized oil appears to be con tant

Abnormalities of the bronchial tree are frequent in chronic fibroil phthi is diseases of the pleura and media tinum and bronchie tasis

Bronchial tenosis 1 often found associated 1 1th bronchiecta 1 7 pulmonary ab cess

The most frequent sites of bronchiectasi put id bronchiti b onchioliti and bronchiolectasis are the branched intrapulmonary bronchi and bronchioles

Meer strapleu al thora oplasty for tuberculos; the bronchial tree may undergo numerous changes and be ome a large tube with localized or general zed I concluercas at the base. When the bronchiectasis extend is to the periphery method of collapse should give better result than a hen the dilatations are hasal.

In tized oil introduced by the bronchoscopic meth od is an aid and a guide in the selection of cases suitable for the thoracic aurigeon and in the prognosis and treatment. It makes it possible to treat each case individually and increases the good results obtained by postural dramage.

Ordinary roentgenograms of the bronchial tree are unsatisfactory and often confusing becaute the bronchial tree divides frequently and is repeatedly crossed by part of the pulmonary circulation. It fails to git earn information as to the site and extent of the divides.

The impo tan e if the a curate interpretation of rearrangements male i llowing the injection of a fixed oil must be emphased. A positive shadow cat b an injection which cannot be adequately eplained on the basis of the clinical history signs ymptom and a br n ho copic examination should

not be considered. A typical shadow when substantiated by a clinical picture allows of no discus-

STEWART One common cause of septic condition of the chest seems to be bad teeth an I gums and a poorly cared for mouth One of the most common clinical pictures is that of cough expectoration debitty and bad teeth

The infections following operations under general angesthesis are well known. In many of these cptic infections symbolic and angesthesis are well known. In many of these cptic infections symbolic and the second symbolic an

Chronic bronchitis has been a convenient term under which many condution of the respiratory tract have been described. It is time for these conditions to be defined more closely. The injection of sodized oil for outhining of the bronchial tree and bac tenological examination will help.

The excellent results that can be secured from

rest and posture in the earlier cases of every type of

septic injection are impressive

An outline of the points to be noted in the differ ential diagnosis between earlier c es of eptic infection and pulmonary tuberculosi is given Archibald. The use of indized oil 40 per cent

has proved of value in tuberculo is to determine the physical condition in a lung previous to a proposed thoracoplasty and to letermine the condition in the long with might explain a lack of complete success years after a thoracoplasty

Eight case reports are given and even roentgeno

In tuberculous cases todize I oil should be used with caution \(^1\) method of injection simpler than the bronchoscopic method it probably best because however carefully and skillfully the procedure is carried out it taxes the patient's trength more than a simple supraglotti injection

The injection of iodized ol is of value al o in old thoracoplasty cases in which the symptoms persuas Roenigenograms taken after such injections reveal lessons that cannot be demonstrated by any other method

During the prog es of a several stage operation for bronchiectasis or abscess of the lung it is of value to determine the amount and location of the di ease that still remains

CRL R STEL K M D

Edwards A T The Su gical Teatment of Phthisis and Bronchiectasi B 1 W J 1927

In bronchiectass and phthias the object of the surfacon is to prevent the evil results of the contriction of fibrous tissue on the important pul monary structures either by allowing the rigid thorace wall to fall in or by interpo ing solid or gaseous buffers between the che t wall and lung to allow localized or generalized pulmonary collapse

In this way cavity walls are brought into apposition healing is aided an i the lung is given rest

The versus methods of recomple 1 ng the cents and their infections and contra inflications are

heu el

Operations for the divisi n of adhes one are done in ca es in whi h artificial pneumothorax treatment is rendere I on! partially succes ful by the presence of localized adhe ions between the parietal and vis ceral pl ura which prevent full pulm mary collapse Only comparatively narrow band can be succes fully divided The e tards are commonly found overlying cavitles in th lung. The metho fof ch uce is e uterization of the a thesions under the control of the raco copie vi ion as devised by Jacob ious of Stockholm A light degree of surg cal emphysema a common se juel. The main complication has t en severe emry m entier early or i te This has resulted in d ath in from 7 to 8 per ce 1 of cases The operate a should not be attempted in the presence of cleans, or in cases with bin is thicker than

The ob ect of pneumolysis is to pro luce a localize ! collapse of the lung to compre a cavities. The vari ous media use I to fil the space between pleura an I chat vall a clude f t from the abd minal wall I pomata or omentum garaffin was with a small proportion of 11 muth carbonate an 1 iodof rm por tions of the pectoral muscle and gauze packs I cumolysis can be done as an interentent pro cedure or as a supplement to other operations it is of no value in bronchiectasts as in this condition basal collapse is required and there is no point of eant e pres ute. It is most valuable for uncollapsed anical cavities following thoracoplasty for tuber culous Int appears the I feal medium If enough of it can be obtained. As an in lependent proced repneumolysis does not go e sati factory results as

the collapse is too localized. The original operation of simple division of the phrenic in rice has been modified because of the price of a cace on optimize (birs which Join the min stem after its entrance Into the thorive. The active railing of the displayma sites overation was stated by Felix to be can at the end of in partition and a tis said that the lung volume is refuel by from one to be one of the three the state of the price of the state of the sta

"The indications for the recollists a tuberculosis are if rote disease with mechanish of place ment cases in which methanish of place ment cases in which artificial pneumothorisk has been successfully carried out but tractication resulted when the treatment was discontinued (in the classes pleurial adhess a specially prevent further pin untotax treatment) certain cases of long standing

dueane with extens a cavitation plearal effusions which recur in spite of other treatment true tuber cubus emps emails a man coasted with secondary in effect in and recurrent harmoprisa resultant to other form of irectivent. The difference is the mainly form of the cubus of the

openia on the roughts is mad cable before the Asia rule the roughts is an advantage for the contracting flowned transfer and the contracting flowned transfer and transfer and

In Fig. 17 on series of cases the two stage operation has been done as a routine procefire as the shock and absorpt not to use it to the circulation are less when the compression of the lung igradual. The terral butten the stage is about the weeks.

lates J I Tle Rati le of Operations Helpful in fromoti g Reco ries from Pulm ey Tube culos! 4 & 5 L o 7 x v 369

All who e pe untim ly leath from other causes are infected with tuber le bicille but the majority are insu ceptibl a 1 levelop no recognized evi erce of the infection. The primary sims of treatment are to pre ent the insu ceptil le from becoming su ceptible to lessen su eptibility and to te strict exposures to infection Secondary objectives are to milby s ithout d by every method of check ing the d'sease to helf the pati nt to approach as ch sely as possible the status e of tring us scepti billy and t m intain the highest level of im pro ement Local le i as are the points where th battles again t the bacteria are won or lost and the outcome of the struggle depe ds almo t e tirel upon the quality and quantity of bl od del cered to there a as

Impro ment of the quality and maintenance of the olume of blood are brayeth about by re! a suit bl lief exposure to su light and repected track to said of tumon finded blood to combined with the last cardiac labor when a traphent regal resource are real to the last cardiac labor when a traphent regal track to the last cardiac labor when a traphent regal track and the optimizer and the said of the last the optimizer to the last the optimizer reduction and interpolation for the last the optimizer than the continuous control of the disphragm. Under such conditions the lang to three to function and

there is neither hyphæmia nor cellular deterioration from the lack of use The improved circulation cau es an increase in the pleuropulmonary resistance and repair This defense reponse can be induced by blocking the tran m ss on of motor impuls a through

the phrenic nerve

Another factor of importance i individual com prene th ability to develop energy in exce s of the amount required to support inactive existence This depend upon internal respiration which is commensurate with vital capacity As vital capac its is materially reduced by mactivation of the diaphragm it is the whenever feasible to induce a temporary block of the phrenic nerve rather than a permanent daphrapmatic paralysis in order that if the pati at recovers he will not be irreparably handicapped by the treatment

The after-care requires constant watching with period cal the ical and roentg it ray examinations determinations of the vital capacity and blood examinations Occasionally these will teveal in cipient recurrences and at such times a tran fusion

will accomplish much

Thoracoplasty is only a means to aid the healing of a local lesion and should be avoided if possible because it I roduces permanent impairment of ex-ternal respiration with reduction of the vital capac ity If measures to improve the quality of the blood and the induction of paralysis of the dia phragm are not followed by improvement in a month or two rib may be removed a few at a time from below upward or vice versa. The resections should extend from behind the angles forward to include some of the costal cartilages. The produces the maximum effect with each resection and helps to limit the number of ribs that must be removed

Another objective in the treatment should be the eradication of irreparable lesions interfering with recovery. In a considerable number of cases healing occurs in all but a few larger lesions con nned to one lobe frequently the upper lobe In such cases lobectomy is indicated and is feasible if performe I with the cautery as described by Graham

In 100 cases treated Juring the last two years according to the plan described very favorable results were obtained CHESTER L CREW MD

Welles E S Accessory Thoracoplastic Operation for Colleges of Large Tuberculous Cavities

discouraging f ature of the surgical treatment of Julmon to tuberculosis is the failure of apical abscesses to collapse compl tely following para vertebral thoracoplasty. A small cavity will persist and cau e the patient to raise considerable sputum To operate again in the b ck and remove further ection of ibs is a difficult procedure the r sults of which are often de prointing Anterior anicolisis is probable the operation of choice but a quite d facult and associated ith great rik is a sub stitute for th se measures the author advocates an

operation consisting in the removal of further sections of the upper ribs through an avillary incision

The patient hes on he back with he arm extended above his head An in ision is made in the anterior axillar, line beginning at the tendinou portion of the pectoralis major and extending downward to the sixth or seventh nb No muscles la ge ves el or ners es are encountered and the ribs are promptly exposed Beginning with the fourth rib the rib are bared forward to the cartilages and backward to the cut en l left by the posterior thoracopia ty The entire third fourth fifth sixth and probably the eventh rib is removed depending upon the location and size of the cavity. In some cases the removal of only a piece of the second rib : sufficient The nound 1 closed with a subcutaneou layer of catgut and the skin sutures. A rubber drain is brought out throu h a stab yound in the posterior amiliary line A large pad of dressing is then applied and held to htly in place by adhe me strips running from the sternum to the spine. There is we y little shock Patients have been able to leave the hospital within a week after the operation

CHESTER L CREAN M D

Hedblom C A Uncomplicated Unilateral Bron chlectas s Late Results of Extrapleural Thora coplasty ir h Si g 927 to 3 9

Uncomplicated bronchiectasis is that form show ing characteristic changes in the bronchial tree with out any parenchymal changes The clinical symptoms are purulent sputum with a chronic Daroxy small cough clubbing of the fingers and more or less debility. The \(\frac{1}{2}\) ray picture 1 characteristic Recurrent attacks of fever and rapid loss of weight indicate involvement of the parenchyma

Only unilateral cases of bronchiectasis are suitable for surgical treatment. As the series of cases reported were observed before the introduction of indized oil the unilateral condition vas diagnosed from the

phy scal an i 1 ray findings

The extrapleural thoracoplasty which is of benefit in bronchiectasis consists in complete resection of the entire len th of the loner ribs from the lonest up to and including the third or fourth rib

In tub-reulosis in which the patholo ic I proc so 15 most marked at the apex a paravertebral resection of all of the ribs including the first rib is indicated

Hedblom reports fourteen cases seven reporte l previously and seven which have been observed since his previous report. The seven most recent cases are described in detail, whereas those reported previously are described only briefly

Eight of the fourteen pats ats were females live patients were under 20 years of age. Th Joungest was 12 years old Seven were bet veen 20 and to years of age One was 32 and one 46 years old In four cases the symptoms dated from infancy in the others they had been noted for from two to nine) ears The base of the right lung was involved ms ven and the base of the left lung in seven. The maximal amount if sputum was under 200 ccm in one between 200 and 500 ccm in ten and between 500 and 1000 ccm in two. In ne case hem ptv 1 vas the chaff symptom.

The X ras findings were characteristic in twelve case. Pattapleurit thorac plasty was in 1 all under or mbine I red in all all introus out to 3 gen vinkers at the alcohol injection of the nerve trush and all the states of the finding the states of the st

There were no fatalities foll wing the operatin. In all cas is the ease in the dimprovement if ha decrete in the cough and appution and a gain in sight. In it we cases the squitim letter off from lette in 200 and 1 500 ccm to 15 ccm. It less that the cough and 100 ccm to 15 ccm. It less that the cough and 100 ccm to 15 ccm. The sight off the cough and 100 ccm. The cough and 100 ccm to 100 ccm. The cough and 10

on fe m acute po soning

He III om teliese the fewer floward in racoplassion was 1My with ut near. He produce a collysission the 1 th 1 fewer 1

In the 1 ce 1 n of the repet 1 live mass stat 1 that alth ugh le 1 n t at first agree with If I flom that agr leith acopla to is in licated in the treatment of 1 to 1 n ct he no bele es that to offers agreat 1 al He report 1 live aces in which it caus d dec lel imprement In a that or e the result of the treatment a not said (ct)

as the br nch ectasis a complicated by pulmonary

t live high

Weversunge ted ligation of the pulmona y artery a pr fiminity preedure before the racoplasty life reported a c. se in hich this line was done. The patie t refu, d a thir c plate but t li compil t b cut l

Hirsts rs port I that his rc list greath the se of He lift m If h be neaded which suggested rell ge was contempled. The operation proformed in mit case con its in exterice reminds through the ribs.

Miller J A Medical Aspects of the Treatment of Abuces of the Lurg V 1 k State J M 9.7 I ambert A V S Pulmonary Ab ress nd It

MILLER descr bes a system of ma agement rather than a method f tr atment f r cases of absc se of the lung. The treatment involves strictly me lical supervision for e ref I stu ly nelu ling physical and ray examinations car f I measur ment f the am unt of the putum a st Is of the cough which pro luces it the lact ri logy of the putum the ha ir of the temperature and the progress of all of these factors during at least one cek of c rel ! observation The it mary a I has treatment t als I te le l re t combine I with po tural drat age for weeks or months. In the after care rest in a recumbent position is necessary at fr t for con-der at le perio is each 1 v. These peri 1 are grad alls limins hed until a normal legree factive lies obt med an ta permanent cure effected

Cough with the expector ti n of pus occurs in all eases of lung at e s in hich there is communic ti n of the al ces with a br chus Le t in poti as of the be to will very fre mently for m re complet emptying of the cavity b the cough. The p tient is a mi letely in riel with the heal hanging I wn to the floor by ben! g t the waist er the elge of a le! I twist of the b is to bring th affected a le to a higher le I than that of the I po ites le is often de al le This p sture shoul i le as umed t regular int r is usuali e ery three or four hour t fir t and maintained fr perols ranging from 6 e to ffteen or tw nty min tes The becond t felt in the h i from the inverted p to n quickly eases an I patients rarely c mpl m of it aft r the f t day or tw Th flect : er striking when the treatment succes ful

It is generally recognized that men for the sen in letter lanaders in pulm are alsee which are responsible for the her textucable food of rof the pulmum are the a netode cryamin man (she has be no sheet Vern frequently the colonized are in comparated by mail do sheet men that the contract of the state o

In m ny ca es broncho copy may ia lt tedra n ag when it is n t promptly t blished ly re tan l

postu

Ittificial pneum thera exists with it too great a risk tower the employment a routine pocedule in the treatment i lung ables by well with a fortune tember to fir umstan epet like it at far the hium brill it results my be of tank by it.

If a ca e of a cute or suba ut ab cess h tm de y ns lerabl p gress to rd c reat the end of a month or ix weeks f me l al treatment t is not likely that an absolute cure will result from medical treatment alone and operation is indicated. In Miller's experience about 50 per cent of the cases eventually come to operation but becau e of pre liminary medical care the surgical mortabits has been materially reduced to 10 per cent whereas previously

it ranged from 30 to 70 per cent LAMBERT describes lung abscess as a particular type of pulmonary infection a suppurative pneu monitis the characteristic lesion of which is a ceilul tis of the parenchy ma of the lung with a break ing down of the wall of the alveoli and the forma tion of a cavity filled with the products of the necro st which from time to time may be coughed up if there is a communication with the larger branches of the bronchial tree. This cellulitis of the lung parenchy ma gives me al o to an ordematous swelling of the alveolar valls vith an infiltration by leucocy tes and an exudation of serum into the alveolar spaces in a zone of varying extent about the central necrotic focus The alveoli in the inimediate neighborhood of the central focus are usually collapsed vith their alls in contact and it is this zone of collapsed al veols which is frequently spoken of as the vall of the abscess The exact nature of the wall depen ! largely upon the duration of the absces since after a prolonged period of suppuration the collapsed alveolt lose their re piratory epithelium and become connective to sue strand the inter tices of which may harbor many bacte in Such a group of alve oh are n teapable of re agration and account for the shadows present in the \ray pictue long after the symptoms of the di ease have disappeared and the catient is apparently cure! The bacteria ma emain in the ti sues a long time and account for the recur ences of the du use so frequently developing in patients ho i sist on too much activity too oon

after an protective Such focus when first een 1 usually considered pneumonia and 1 not correctly diagnosed until a free communication with a larger bronchus has

become established

The ch of essential of successful treatment of lung abscess is Irangae of Lamberts see see of patients so per cent recovered completely under the more conservative forms of treatment without operation. The ideal time at whi h t drain a lung abse so through the chest wall is when the zone of exudative inflammat in has centredued to the minimum and the central cavity is surrounded by a sept of cel lapsed were cler representing a more or less discrete will. It is condition may be attained best by convention and the attained best by convention and the control cavity in unfailed cases and absolute hed beach steps in untable cases and absolute hed

It i important to establish the exact location of the abs ess and it possible the point where it is not extended in the choice of and a restated in the choice of and a restated in the sound of the choice of an artist of the choice of the ch

lung may be blown up and the danger of a possible shift of the mediastinum thereby decreased

When the chest is opened by the re ection of vib tal portion of one or more ribs the pre ence or absence of adhesions should be ascertained. If no adhe ions are pre ent it, was to prick the voin if which gause and with for from three or four lays to a week, until the two layers of pleura adhere. There is danger of establishing a sewere type of empyema if the abscess is oneted vhen a pneumothorax is established the smallest opening may prove disastrous

The use of the a pirating needle on the unopened chest to establish the diagnosis: an unjustifiable procedure for the same reason. The patient should be kept on the side operated upon until his respira or; equilibrium has been completely re e tablished and the bronchial tree has been emptived of secretions logat. If Kur, M.D.

town 11

Papin F T o Cases of Stripping of the Pa letal
Pl ura for Pulmonary Suppuration (Deu ca
de dé ollem in pleuro pari t l po suppuration
pulm n r) B ll 1 mêm So mêd d ch 19 6
ist one

Cou oux A nd Desplas B and Roux Berger
J L Old Chronic Suppurat on of the Right
Lung Pleurolysis Cure Maintai id for Sux
Years 15 ppa at nchro ique an en e do poum n
dr t plur) e guer on mai tenue depu x
n) B U cimim S mid d h 96 lu o 1

Laws sports the case of a patient at veries of age who after an attack of grappe sul lend; expectorated a large quantity of very facilid brox a pur during in attack of copying. This scale and X ray examination attack for a manufacture of the state of t

Lader light chloroform ansathesa I apin resected the second cartiling and who on the right side to just beneath the clauvele and through the breach so made after total suppression of the anaximensa stated for the control blooms as an entirely exceptuated for the control blooms as a control exceptance of the control blooms as a control exceptage of the control blooms as a control exceptage of the control blooms are settled as a control was exposed. Obliteration of the cavity was main tained by the introluction of several gauze packs. Antigrangement serotherapy was given

The gaue packs are changed from time to time and gradually removed. At the end of three weeks healing had occurred. After the touth day the temperature remained normal The expectoration exceed in the control of the c

The econd case reported by Papin was that of a pregnant woman 32 years of age who developed pain in the chest hills fever and the expectoration of ve y fourl sputim after an attack of ton illitium Physical and V ray examination revealed a cavity

with a fl d level in the upper third of the left lung The opacity in the rocntge ogram extended forward

to the second and third ribs

Under chloroform anæsthesia Papin resecte I the second rib on the left side in front of the anterior axillary hae and after stopping the anæsthes a stripted the panetal pleura a vay except behind At the end of the procedure a small pleural tear occurred This was sutured and the wound packed with gauze

After a very stormy lay due to pneumothorax the patient's condition p ogressed favorably for a week On the eighth day premature delivers curred. The ope at e wound suppurated abun dantly and an infected pneumothorax secondary to the ope ative wound developed. One week after deli ery the patient die i of infectious pneumonia Autopsy reveale I an infected pleuroparietal nou d leading to a suppurating intrapleural cavity

COLECOLY and DESPLAS report the case of a man aged 46 years who sustained a shell wound of the right sh ul ler and lung. No operate n was per formed Tle follo ing year the wound fistula ex truded a bone sequestrum. For five years the ch onic suppuration persisted with periods of exace batton and more or less abundant expectoration of putum containing pus pneumococci staphylococci the pneumob cillus of I riedlander and numerous anaerobic organisms. No tubercle bacill were found. I hysical and \ray examination showed two cay ties surr unded by a lerosis in the upper lung The ca attes opened into one o more bronchi but did not drain well

The authors established extraple al compression by pleurolys s Under local anaesthesia a o cm incis on was made over the second rib lateral to the costochondral articul tion. The very thick pleura was found completely adherent to the lung Several lung punctures ga e the impres ion of entering a cavity w thout fluid bout 3 cm deep and sur ounded by hard calcified tissue. With a vaseline gauze c mp ess over the finger the parietal pleura

was stripped away from the posterior axillary line to the fifth rib below to the sternum and up over the apex The coll pse of the | g persisted e en during deep 1 sp ration At th end of expiration the operative cay ty measured abo t 5 cm. The lung collap e was maintained by two gauze packs with

two large rubber dra ns

Postoperatively the wound discharged abundant se ous fluid until the drain e e removed. On the twent eth lay the wound was scatnzed without a fistula Two months after the operation the patient retur ed to work During the five years since the operation hi ge eral health h been excelle t and he has had no cough expectoration pain or r p ra tory trouble The thorax presents some retraction with holl ving in the nir lavi ul region whe e percussion flatnes a d bl wi g re p rat on w thout le re noted The \ ray shows at the right apex below the clavicle t o clear spaces sur unded by sclerotic ti sue The apex is flattened and the trachea deviated toward the right. Hence accord: g to the physical and \ ray signs the cavities persist but under compres ion have emptied and a e no

longer s ppurating

In the in cussion of these reports Moure stated that he had done parietopleural stripping for a cavity of the left apex The operation was simple and with out accident and the oblite ation n s perfectly accomplished with a gauze pack but the patient died of cardiac collapse the same d y Mou e be heves that card ac compression was produced by a too tight pack

ROUY BERGER reported that he had no er observed an acci lent from gauze compres ion but that the u e of the pessary of Ganel requires great cau tion In his opin on the durati n of the compress on of the 1 ng sho ld depend up n the tempe ature the expectoration and the absence or presence of retention at the level of the packs intr duced after the deco tication. He emphasized the nece s ty of creating a pleur I symphysis if it is n t already present before stripping away the parietal pleura and suggested for this pu pose pneumopers pack ing or method of producing pleural irrit tion I neum pexy and packs will permit the pleural layers to unite over a limited surface sufficient I r the opening of a well locali ed lung abscess or hydatid c st but probably not sufficie t for exten sive parietopleural stripping

TUFFIER stated that n a case of large pulmonary cavity in the right interscapular region he first per to med a ph en otomy nd several mo the I te resected from 8 to 10 cm of f ur ribs in the retro axillary line and stripped the p ret I pleura. The uppuration was cu ed and the patient's general ondition is now cellent Tuffer emph zed that all of the operations of c ll pse therapy prove the important role of mechanical orditions in pe sist ence of the le on

Proof stat d that nability to locate the focus exactly and the pre ence of multiple abscesses a e

nd c t ons for pl ural stripping

P p n and Roux Berger both reported d ath secondary to st ipp ng of the panetal pleura beyond the pleural ymphysis They belt ve that thoraco plasty should be res rved for tuberculosis or old non tube culous conditions with considerable s lero is and the tempora sobleteration by p clasora f balloon may be u ed f r other lesions

I LTLE C B REE MD

Hearn W P and Clerf L H Pot perati e Massi e Collapse of the Lung 1 3 g 9 7 ltx 54

The first d sc sptio of ma 1 e collap e of the lungs and its occurrence as a postope at compl ca tion was made by Pasteur This condition may be th result of a stop val obstruction of bronchus by mucus plugs and can be consid ed an obstructive atelectas

Hearn and Clerf report the c se of a child 8 years of age who was operated upon for the closure of a gastrostomy fatula which had been formed because of the dicteasus he bourns and cartenial stenoses of the components. The patient took the anexthetic coupling the was an anonying short irritative cough and considerable trouble was caused by secretions in the mouth and thorat. About thry sax hours after the operation the temperature gradually row to 103.4 d greet F The physical signs suggested pneumonia involving the left lower lobe.

Bronchoscopy for diagnostic purposes was per formed without anaesthesia eventy two hours after the operation and about eight hours after a di no is of ma ive pulmonary collapse had been made

The night broochus seemed normal and a as free from secretion but in the tracket and left bronchus a large quantity of very thick tenations sellow doorless secretion was found. The mucoss of the left broachus and its subdivisions showed marked marked marked the market of the left broachus was completely occluded by the secretion and no air entired the left ling. The bronchial walls did not more with the respiratory overential. Following any inclusion of the secretion was the secretion with inspiration and expiration a straking change in the physical signs was observed breath sounds be came andbble or either entire left lung and many coarse rules were noted.

Reentgen ray examination of the chest was made one hour after the bronchescopie examination. The left lung was fou d to contain a considerable quantity of air. There was more air in the lung at inspiration than at expiration. The indicated definitely that some obstruction had been teno ed from the left main bronchus at the time the bronchos opy

was performed

Miter eighteen hours all of the physical and \ ray signs of pulmonary collap e recurred A second bronchoscopic examination showed findings pract cally identical with the e made at the first one After the removal of thick secretion 1 ith the aspira tor bronchial movements were again ob erved and the air seemed to enter the left lung freely On the eighth day after the operation there seemed to be a in rease in the pulmonary collapse and only 4 2 c cm of secretion could be obtained The endo b onchial appearance showed no change over that noted at the time of the previous examinations While there was no increase in the acti aty of the cough reflex and the patient general appearance howed striking improvement the physical signs and roentgenographic findings showed a recurrence of the collap e

It was decided that more frequent bronchoscopic aspira son was recessary Aspirations were there fore dan on the c enteenth amounterinth and t enty thand day after the operation The secret ion became progressively less tenacious and the phis sacil signs showed a return to almost complete lung function.

ESOPHAGUS AND MEDIASTINUM

Steward F J Souttar H S Abel A L and Layton T Discussion on the Treatment of Cancer of the Osophagus Proc Roy S c Med Lo d 1027 32 221

In the palliative treatment of carcinoma of the esophagus Steward prefers early gastrostomy to dilatation of the stricture or the passage of tubes Early gastrostomy seems to lessen the irritation of

swallowing and prolong life

For cure radium and surgery are to be considered. The use of radium a lift cause a large carcinomatous ulcer to di appear but recurrence is almost certain to follow. In many casse insufficient do age scems responsible for failure and the only hope lies in intensive treatment over a longer period of time. Cut ex employs three tubes in a hollow boughe and gives about 5000 mgm line seposure.

Surgical exci ion of the growth has been attempted by various methods but has been rendered unsuccess ful by infection of the mediastinum and difficulty in mobilization of the crophagus and in sub couent

suture at the time of reconstruction

Steand reviews three cases reported by Forsk Lilenthal and Figer's which were treated successfully from the operative standpoint. Int in too 6 which death resulted from recurrence. Torck a patient lived for twelve years. To 6 of Stewards primers survived the operation out their shortly represent survived the operation out their shortly the contract of the contract of the contract of the patients which the operation only eight hours. Steward favors the posterior approach of Lilenthia

Steward believes that with improvement in the technique better results may be expected as an early diagnosis: 1 possible and the di ease usually remains localized to the oscophagus and is associated with hitle secondary I much node movement.

Souttan di agrees with Steward as to the opera bility of these ca es pointing out that as a rule the condition is inoperable at the time dysphagia occurs In a series of 100 cases the average duration of symptoms t as four and a half months. Not more than 5 per cent of cases coming to the surgeon are operable On the other hand intubation offers a period of comfort of from the months to to o years during which time the patient is able to swallow soft and thoroughly masticated foods employs a tube of German silver wire which to prevent regurgitation is flattened and twisted into s spiral In the introduction of the bougie the ceso phagoscope is employed Dilators of different sizes up to 11 mm are used and the tube is finally shoped into place Repurgitation of the tub- has not oc curred and the result compare favorably with those of gastrostomy

LAYTON believes that although the cases which are to be considered operable are few surgery has a definite place In many cases intubation after the method of Souttar gives relief Gastro tomy when indicated should be don early and all patients should be made edentitions

WILLIAM J PICKETT M D

Frey S Tie Dangers of R dium Irr diati n of Esophag al Ca cinoma (6 f hen bet d r R 1 mb t 11 g d 0 ph g ca in m) Z t 1 lll f Ch 9 6 li 80

Of the numerous method fr ralum irradiat on of car moma of the asophagus the introducti n of the radium acco ding to the princ ple of the en lless boughe ha proved to be the most reliable a d suc cessful This technique which was developed by Kurtzahn ha been used e clusively at the Koenigs be g Um er to Surgical Clinic since 19 o Ho ev r in t o of the 200 cases in which it has been employed an ac dent o curred. In both instances the c p of the metal tube came off and a radium tube containing 30 mm of the element remained in the ga tro intest nal t act. In one case examination with a bittum platinocvanide screen in the dark room sh wed th't the r hum had not changed its position at the end of sixteen hours. An attempt was therefore made to remove it by operation in order to prevent a ra hum burn but it could not be found The patient die Leight das later of broncho pneumonia It aut psy no burn was found in the gastro inte tinal tract

In the ther a c the tube was expelled from the bowel after t enty four hours and the pat ent

shoved no v ien e of any harm

After these two a scheats the construction of the radium car or as so changed that the filtrat on capsule now hell t the tube by means of a screw which it sholly it end 1 b, means of a screw do c it goods to be seen as table, turned into the screw as table, turned into the tube, the screw as table, turned into the screw as the screw

s ex a goot 1 use. The conclusion that following an act lent of the kind desemb d an attempt to operate emoval of the radium s contribution of the conclusion of the contribution of the c

Lambert A V S and Berry F B The Medias t nun Paths of Extension of Infection from a Focus in the Mediastinum 1 / S f 9 7

The authors have studied the most stumm in the coorde to medi stunal shadow of doubtful mer of the coorde to the stunal shadow of doubtful mer of the coorde to the studies of the studies of the mediast num re-viewed According to the relation to the peric ridium the mediastinal space are named the prepencard al postperica dial upra peric ridial right and left pericardial spaces.

In the i et tons repo ted the spinous processes and the lamina of the first second and

third dorsal vertebræ were removed together with the portion of the spinal cord e po ed and an 3 gauge needle vas passed through the second inter vertebral disk I om behind forward u til its up had enteed the supraperceradial portion of the med asti num. Then by in ans of a syringe or by gravity Gerota's flud was introduce! (Issually from to to 40

cem as only the clavers of infants were used)
From the mediastinal shador s in the roe (geno
grams the authors were able to ascertain that the
fluid followed certain definite paths to and from the
mediastinum and that infection can follow the

asme course. The follow is conclusions are drawn Infections may spread from a fo us in the m di astinum (1) through the broad light is of the lungs beneath the vieral pleura and into the substance of the lung down the larg r branches of the stance of the lung down the larg r branches of the the vertelepre to the endotherance fasts out de the parent's pleura. (3) upward anto the fascial plaine of the neck (4) do may affine the retropers in cell connective tissue and (5) anteriorly be eith the stream outside the aintern pleural reflections stream outside the aintern pleural reflections hadron's Evuldate in Your about large floid of lections which seldom viden the normal mediutinal

shado
The h storie of vari us mediastinal infectios and neoplasms e given Jon J Malo EV M D

MISCELLANEOUS

D vidson M Hæmopty is of Obscu e O igin A Critical Account | Two Unu u 1 Ca s L /

The cases of hemotism are reported. The case in the first remained uncertainteen a hough a exploratory thoracotomy was performed. In the second, the cause was shown by autopsy to be a primary carcinoma of the bropothus.

In di cussing the differe ti I diagno the author urg s the use of the broncho cope and ray p c tures after the exclu ion of tuberculosis morbus cordis and general hymorrhique di eases

The st do of hemophysis of obscure or gin should include a complete chical e amination an \text{\text{Ta}} as e amination with and without the use of I pied I and a broncho copic examination

MERLER Ho MD

Lem n W S Th Physiol gic 1 Effe tof Ph enic

Neu t my 1 ch 5 g 9 7 345

In as tres of e perime is a dogs either one or both phrene nerves were se reed. The b hot of the animal and the function of respiration e then tudied by, phy sale and ton a d the use of a record is de e. and the flu rost per flet is apleural press ure as meast used on both s tes. The flur go daph gm a d phrene erves we examined at necropary great ly and nucroscope cally

The operation itself is atte ded with little or no risk for the n m l it brings about no impairme t

of his functions in general or of his re pirators func tion in particular. The compensation is sufficient to overcome the loss in function of the half of the diaphragm or of that of the diaphragm as a whole when both phreme nerves are severe ! the animal ! competent to carry on its usual activities without embarrassment or dyspacea The thoracic wall both laterally and at the costal margins apparently moves independently and the movement i not in fluenced in direction or extent by paralysi of the nerve regardless of the side operated on Atrophy appears early in the diaphragm but paralysi ap pears at once The paralyzed side can be deter mined by fluoroscopic e amination but not by inspection or palpation of the chest nor by tambour readings of its movement. The paralyzed hemi diaphragm ti es approximately one interspace higher th n its fellow and remains stationary or takes on short normal movements or in a few instances paradoxical mo ement so that it may be seen to rise in the thorax a short di tance on i ispiration and fall an equal di tance on expiration. The paralysi on the side of the section is complete and the atrophy uniform. The line of demarcation be tween the paralyzed and normal muscle 1 distinct The response to sumulation 1 lo t throughout the whole of the affected hemidi phragm. The mu cle cell are reduced to approximately a quarter of their normal ize Fatts degeneration was observed but no increa e in connective tissue. It is possible that the connective tissue might have been increased in amount if the animal had been allowed to live prove than five months after the operation ob ervation were made o er a longer period of time

The experimental work reported suggests that repurstons in a complicated mechanism made up of the combined movements of various sets of muscles each so controlled that co ordination of mo ement maintained yet each so independent of the other that it may be put into dy function without di turbing the action of any others singly orcombined. Compen ation is highly developed and a factor of a feety therefor e the animal crippled by the los of even so important a structure as the driph again in yet only saver e but the competent presents it eff for consideration. If may be true that the importance of the disphragin has been overestimated the corrections of the consideration.

Sect on of one phrenic nerve cause paraliss and atroph of the entire hemidaphragm on the same alroph of the entire hemidaphragm of the same de that it has months there a noe allence of cross mer at a nor regeneration. Outpoor of the extreme lear that the perspersy of the disphragm through at its sholl circumference affects after his protection. The protection of matter the protection of the protection of matter the protection of matter the protection of the protection of

Paraly is of one half of the diaphragm fails to affect r spiration to the extent that aspiration of

tracheal contents is prevented. The size of the thoracic cage 1 decreased in one dimension only. This reduction of volume produces no physiological alteration from the normal

Harrington S W The Surg cal Treatment of Intrathoracic Tumors and Tumors of the Chest Wall 1rch Surg 1927 XIV 406

Harrington reports in detail sixteen cases of tumor of the chest either intrathoracce or parietal. In eleven the tumor was malb_nut and in five beings in two cases of malignant tumor it was intrathoracie. The symptoms are analyzed and the diagnosis is discussed.

The clinical differentiation of early malifinant and beingn tumor of the chest wall is difficult. When the diagnosis is doubtful exploratory thoracotomy indicated.

I arly radical extirpation of malignant tumors follo ed by radiotheracy instituted at the time of or immediately after the operation has given the best results In cases of exten he disease partial temoral of the tumor followed by the use of radium did not seem to prolong life or refuer the symptoms. Intrathorace tumors at the apex of the lung may be exposed by cutting the clavate. Lar, totta, thotaci tumors of the lateral wall of the thorax may be removed by a two stage operation in the first stage of which measures are taken to wall off the general plearid cavity by the formation of adhe ions better the visceral and parietal plears around the Ethlene geas is a satisfactor, agratistic.

should be used the apo tive pre ure apparatus as an any operation the pleural cavity may be opened. In six of the cases of malgnant tumor there has been no recurrence and the patients are well from ele on to each een months ditter the radical removal of the tumor. In one case of intrathoracy tumor as small recurrent tumor was removed of the versions.

of the tumor I none case of the radical remoral of the tumor I none case of intrathorac tumor a small recurrent tumor was removed after six months in three case death follow of recurrence within six months after the operation all of these were cases of extensive malignant die case in children. There were no operative death

Eloesser L Preliminary Artific al Preumothorax in Operations on the Open Chest with Clinical Observations on the Sensib lity and Reflexes of Varous Parts of the Lung and Various Viethods of Amasthesia 1 h 51 f 19 7 u 438

Elosser regards local antsthesa with or nuthout introus oute analies in a very stil factor for operations on suppurat ve processes in the lungs and extraplicar lope at ons. However the methods of in luxing anasthesia in use at the present time are rery unsait fa tor vin cases with a normal pleura and mobile med astinum. The main dangets are suiten collapse or expansion of the lung the so called pleural reflex for as Eloe or likes to term it pulmonary reflex), and the cough

Su lden collap e or sudden expansion of the lung is dangerous because of the associated sudden varia 30

900 1 11 f Ch 026 Iu Of the numer metho is for rail um trea liatt n of carcin ma of the resophagus the intro luction of the rad um according to the princ ple of the endless bourse has proved to le the most rel able and suc cessful Th technique which was developed by Kurtzahn has been used e clusively at the Koemis lerg University Surgical Clinic since 1020 How ever in two of the 200 cases in which it has been employ d an accident occurred. In both instances the cap I the metal tube came off and a radium tube containing 30 mm of the element remained in the La tro intestinal tract. In one case e amination with a barium platinocyanide screen in the dark room sho ed that the radium had not changed its posit on at the end of s xteen hours. An attempt vas therefore made to remove it by operation in order to prevent a radium burn but it could not be found. The p tient d ed eight days later of broncho pneumoma At utopsy no burn was found in the

ga tro inte tinal tract In the other case the tube was expelled f om the bo el after twenty four hous and the patient

showed no evidence of any harm

After the e to acci lents the construction of the radium arm r vas so cha ged that the filtration capsule is now held to the tube by means of a screw which I tightly f sten d in b me ns of a scre dry er B th the scre and the met I tal e are per forate I and when the sire is tightly turne I into the tube the two holes lie o reach other Through thes pening dr wn a threal which f thr in sures a g od cl sure

The autho has come to the co lust n that fol ilent of the kind des ibe i an attempt at operative removal of the radium is contrau dicated. Inste d con ervative measures such as the use of a h y diet nd catharsis should be em nloy d a it i imix sible to locate the tiny tube exactl and on ac ount of protection afforded by the inte t nal ontents the danger of a burn 1 not great even hen the radium emains n the g stro intes tinal anal for long a seventy two h urs F FY (Z)

Lambe t A \ S and B rry F B The Media tinum Path of E ten ion of Infection f om a Focu in th Medi tinum A / S g 97

The authors have studied the mediast num in ord r to corr late med a to 1 shadows of doubtful tle I ray picture with certain int roretation path of infectio Th embriology and anatomy f th mediastinum rer sewed According to the r relation to the peric rdium the mediastin I spaces a e nam d the p epericard al postperio rdial upra per ca dial right and left pericardial sp ces

In the investig ti n reported the spinous processes and the lam na of the fist second and

third dorsal vertebræ were removed together nich the portion of the spinal cord expose 1 and an is gauge ne lie was pas e i through the second inter vertebral di k from behind forward until its tip hal entered the suprapericardial portion of the mediasti num Then by means of a syringe or by gravity (erota s fluid was int oduced (usually fr m 101 40 c cm as only the cadavers of infants were use it

From the mediastinal shado is in the toentrero grams the authors vere able to ascertain that the fluid followed certain definite paths to and from the mediastinum and that infection can follow the same course. The following conclusions are dra n

Infections m y spread from a focus in the mil astinum () through the broad liga sents of the lu gs beneath the visceral pleura and into the sub stance of the lung down the la ger branch s of the bronchial tree (a) posteriorly along the bodies of the vertebræ to the end thoracic fascia outs de the parietal pleura (3) upward 1 to the fa cial plane of the neck (4) downwa d into the retroperitoneal con nective tissue and (5) anteriorly beneath the sternum outside the anterior pleur I reflections I rudates in Zone i will give ri e to roentgen ray shadows Exudate in Jone 2 show I rge fluid col lects as which seld in widen the norm I mediastin I

The histories of arrows michastinal infections and JO V J MALO & M D neoplasms are gr en

MISCELLANEOUS

idson M. Hæmopt, I of Obscure Origin A. Critical A. ount fT o Unusual Cases La. ! Idson 31

Two cases of hymopty sis are reported. The cause in the first remained uncertain even though an e ploratory thoracotomy was performed In the second the cruse was shown by autopsy t be a primary carcinoma of the bronchus

In discussing the differential diagnosis the author urges the use of the bronchoscope and \ ray p c tu es after the e cl 1 n of tubercul sis m rbus cordis a digeneral hamorrh gic di ca s The study of hamopty is of obscure origin shoul! include a complete clinical examination an \ 12) ex mination with and without the use f I piodol

and a broncho copic examination MERLE R II) MD

Lemon W 5 The Physiol gleal Fflect of Ph e ic Neu ect my 1 h 5 g 927 In a series of e perim ts on dogs e ther one or

both phr c nerves wer se ered Th beha 1 rol the animal a d the function of respirat n er then tuded by physi al examination a d th use of a reco ding de c an i the fluoroscope. The in trapl r l p e sure was m asured on both siles The lungs daphragm and ph e ic nerves examined at a cr p v g o b and micr scopicall The operation its if is attended with little or n

risk f r the animal at brings about no impairment

of he function in general or of he respiratory function in particular The compensation is sufficient to overcome the los in function of the half of the diaphraem or of that of the diaphraem as a whole hen both phrenic nerve are severed the animal i competent to carry on it usual activities without embarrasment or dyspaces. The thoracic wall both laterally and at the co (al margins apparently moves and pendently and the movem at 1 not in fluenced in direction or extent by paralysis of the perse regardl s of the ide operated on Atrophy appears eath in the diaphrogm but paralysi ap pears at once The paralyzed side can be deter mined by fluoro copic examination but not by in pection or palpation of the chest nor by tambour readings of its movement. The paralyzed hemi diaphragm rises approximately one interspace higher than its fellow and remain stationary or takes on short normal movements or in a few instances paradoxical movements so that it may be seen to n e in the thorax a short di tance on inspiration and fill an equal d tance on expiration. The paraly 1 on the ide of the section is omplete and the atrophy uniform. The line of demar ation be t een the paralyzed and normal muscle is di tinct The response to stimulati n i lo t thr ughout the whole of the affected hemidiaphragm. The mu cle cell are reduced to approximately a quarter of their normal ize Fatty degeneration as ob erve i but no increase in connective tissue. It is possible that the connects e to sue mucht ha e been increa ed in

rore than the month after the operation \ \to ob ernations were made one a longer period of time.

The e-pertinental vork reported su-gests that respiration 1 a complicated mechani m made up of the c-mbined mo-ements of various sets of muscle c ch-so-controlled that co-ordination of most must maintained vet each so independent

am unt if the animal had been 'lowed to li e

I the other that it may be put into dysfunction though dist to g the action i fam others singly o comb red. Compensation i hi hij de clope I and a factor of feet, therefore the animal crupil d by the los of e en so important a structure as the phrigin may not only survi e but be competent to he i acti e and n rmal life. The alternative present it ell fir consideration. It may be true that the importance of the dip hagm. h s been overestimated.

section of one phremic nerve cause paral 1 and atroph of the nutre hemsdappings mon the s me ide. Utter five month there 1 no evile co of crox s unner at nor e en ation (Moreo er thee idence seem 1 th t the peoplery of the disphragm throughout is whole circumference uffers at oph) If the branches of the inter ostal nerves innervale this ports in their usefulnes would appear to b extremely small a dissufficient to p event attrophy equal to the in other and remote areasy or to permit of contribution of the muscle is st mulat d Paralysis of one half of the disphra m fails to

affect respirati n to the e tent that aspiration of

trached contents a prevented. The size of the thoracic cage a decreased in on dimension only. This reduction of volume produces no physiological atteration from the normal.

Harrington S W The Surgical Treatment of Intrathoracie Tumors and Tumors of the Chest Wall 1 ch S g 1927 x v 406

Harrington reports in detail sixteen cases of tumor of the chest either intrathorance or parietal. In eleven the tumor as malignant and in five benigh into a cas of malignant tumor it was intrathorance. The simptoms are analyzed and the diagnosis is discussed.

The clinical differentiation of early malignant and benin tumors of the chest wall is difficult. Wh n the diagnosi 1 doubtful exploratory thoracotomy is indicated.

Larly ridical extingation of malignant tumors follows by anotherapy matrited at the time of or immediately after the operation has given the set results. In criscs of extensive disease partial removal of the tumor followed by the use of radium oil not eem to prolong life or relieve the symptom Intrathorace tumors at the apx of the lung may be eryor dby cutting the Cai cle. Large intra thorace tumor of the lateral vall of the thorat may be removed by a two stage operation in the first stage of which measures are taken to will off the stage of which measures are taken to will off the tenton of the been at any particular pleum around the tumor. This length is a satisfactor any attention of all the tumor. This length is a satisfactor any attention.

I tustene gas is a sati factor anrichter. It is should be used with a positive perts ure apparatus as in any operation the [leural cavity ma. be opened in sive of the case of makingain tumor there has been no recurrence and the patients are sell from cleen to eighteen month after the 1-hel removal of the tumo. In one ca e | intrathorace tumor a of the tumo | line of the course of the tumo | line of the course of the tumo | line of the course of the tumor as remo elaffers is months in three ca es leath | lillo e| recurrence within say months after the oper tum all of the e were cases of e ten we malignant die use in children. There were no overstative death.

Eloesser L Preliminary Artificial Preumotl orax in Operations on the Open Chest with Clinical Observations on the Sens bill ty and Reflexes of values Parts of the Lung and Various Viethods of Arristhe Lu 1/5 / 9/1/438

I losser regards local amasthesia with or mithout mit on und analge is a very sati factors for perations in uppurative processes in the lungs and extrapleur lope at in 8 love wer the method of infucing anaethesia in use at the present time are very unsati factors in cases with a no mal pleura and mobile mediantimm. The main dangers are sulden collapse or expansion of the lung the so clied pleu al reflex for as £loes er hies to term it, pulm nary reflex?) and the cough.

Sudden c llap e or sudden expan ion of the lung is dangerous because of the associated sud len varia tim in the blook thrown it is uckelout of the heart I ven with Bry wer meth I of in lucing and the it in the h the lung n the un penel side of the che to kert functions and again e that on the sile of fatel of n is ell piel a price lure ne nearly sieal as any kno mat the pre ent time -the per ti n is n t ith ut lans r

The least tranting of the per treet to sur m il t at the satient inabilit to million if of the tital air and the 1ft the with the Hatel lung cau es

the arg n It ex r believes that it it it if the to av il the I also natages of the meth t' u fat the present timely in lu rgan art f I preum theris When this is line the p tient becomes a cut self the change in gr ure within the fleur I cavity and a

BI re if peration a ff enting lung full I secretly built be mit With the lung 1 by elthe surgerns abl to trry ut he oper tive fur unhi lere! There is a rest rat re er

sull nell p fthelung i preventel

criscembar ment

I ill wing the preliminary alu ti a fartif sal paramoth research to usually free in three sit. ting the operation is girl rimel unit la lan at the in in tu el entler al ne feet an i pecti n of m robin viates to reaches ten with textal an thesa 21 arter oil precent thorax e 1 gun aliuta e L rien lival freth pe atin tt the first atten, al ut 750 cm el ter intr luce i tire is a later 1 000 c m is int uced and after two or tire to the at ther took ant ten time i lithe er ure nith n ile pleural ca its equal er a the met stinur mu t nibedit trartth imit i Rectal an other in lu of about firter minte bel te the pe tin with 2 or 3 oz fether an ladra Ims of parallely le in 2 oz of alice oil is successful in only about 75 per cent of cases in the remainder the pate at is ma le haper irritabl by the procedure.

Libreser con tiers the mill I flammat to thick enin cau el by the presen e f air in the pleural covity as of 1 stinct value because ab muon is mich le si kely to occur from a ti ckened rleura

The auch r has in luce I a preparatery p eum thorax in eleven ca es-five of intrapleural pneumol s i fraulmon ire tal escule to of bronchiecta sis thre of a oplace I carraroma and one of est I rators the racut my for by nchi I stenosis

The econd great danker ene unte ed in an open th racot my sa se e e par rysmal c uch The n rm l tron tut epith li m i so sensiti e th t merely t uching it will a piece for tion ill cause severe cough; a This i impreson for the patert and re I is the operate a discult f r the urgon If a h reflex trobabl originates in the cilated tron hi I ep thel'um The epithel um of the ex n et I roichi ch nges from the cil ated t the

quam u thereby to ng the cough ret a

In order to abol h the e u h reflex The et introduces into the lit n hislitree i or a c m of a sper ent coc me what n's th brensh b In cases with a br nel If tolast is injected d ceth into the f tula In the cases it is injected int the t chea

It es e bele es that the so-cilled pleuril re by the crushing rinjury of one of the large estal Il report a ca e in which I ring a c uter pa it meetomy a tran h of the pulmo are arters w ery ped thilleling Reputation and the hat att n then stopped and it a timps lift t se

we the pate nt Sutor a r e led r thin except m rke I d latati n of the right is le of the heart

tire On in MD

SURGERY OF THE ABDOMEN

ARDOMINAL WALL AND PERITONEUM

kesnes G The Modern Treatn ent of Hernia B # 1 J 1927 1 173

While great progress has been made in the surgical treatment of hermin recurrences are still frequent

Kecurrences are prone to occur in hrect inguinal herma and oblique herma in oller p r ons hose muscles are atrophied an l ho e internal ring is stretched

In cases of d ect in ruinal hernia the author uses a emicircular flip f the internal of lique la er of the re tus sheath He turns the down to he be neath the spermatic cord and sutures it to the in guinal ligament from the pubic bone to a point near the internal al dominal ring

In the large herma of oll rersons the tructures are ewed behind the cord with sutures of fascia from

the thigh

The author di usses the arrous methods em ploye in dealing with fem al hernia an i concludes ling the ope atton from above through an inguinal inci on This method of dealing with femoral hernia has been le cribe l by M s houratz The at is colated and removed flush with the perstoneum care be ng taken to avoi I the bladder The crural and a closed by suturn the lower edge of the internal oblique to Cimbernat's ligament and thin doi g a t pical inguinal bernia repair method i rec mmended e pecially for strangulated femoral hernia

In the t eatment of umbilical hereia the author ut lizes the M vo technique of transve se neision erl pping of the layers but uses strips of fas ia lata as suture material

hevne u e fas al sutures al o in the treatment of postoperative hernia

I EDWARD BI HEON M D

1 gr & 6 G The Pathogenesis of the So Called Infl mmatory Tumor of the Omentum (& : Frag dr Path g ese d g t t h n Om tum Tu t) Gyfgyd 1 19 5 1

I vin f the case of nflammatory tumo s of the mentum rep rted n the literature (ba elv oo) sh valsti f m the standpot t of the p tho gen s the clini al urse and the anat mical findings

B aun div le the e tum rs into (r) the nost operate f m (2) th s not preceded by operation and (s) the p storer tive tumors us ally following ope at as f rhera a th esect on of the omentum I rench u geo as vell as Schn t ler and Braun have attributed the tum is to the action of ligatures

-usually silk lightures. I ut occasionally allo catgut ligatures-believing that either the ligature ma ternal was not sufficiently asepti or that the li ation was flore in already inflamed omental to sue. How ever omental tumors have been known to occur also follo ing hernia operations in which no omental resection as done and also other t pes of opera tions such as appendectomy cholecystectomy and operations on the stomach and uterine adners

The non po toperative forms usually develop after inflammatory diseases of other ab lominal viscera and sometimes after the primary di ease fo us has heale I (as after append citis cholecystitis adnexitis etc) 1 third group of inflammatory omental tumors develop in the vi inits of foreign bo he such as a allowed needles or fishbones

On the basi of the clinical cour e two groups can be differentiated. The chronic forms those of the Schnitzler Braun type appear from a few seeks to a year after the operation and after pro lucing more or less severe abdominal symptoms may disappear entirely under con ervative treat ment or soften in the center and on incision heal after the emptying of necrotic fat (an oily fluid) a silk ligature or some other kind of foreign body (needle or fishbone) In rare c ses symptoms of ileus may result from adhe ions to the intestines The second clinical type is the acute or Kuettner

Schmie len type which often begins vith fulminating symptoms and is mistaken for an attack of appendi c tis or acute cholecystitis. By its sudden appear ance the circumscribed necrosis of fatty tissue oc curring in these cases suggests an embolic origin

The anatomical pictures presented by various omental tumors also show variations but the path ological substrate is always a central necros s of the fatty tissue around which there i heaped up fibrin which undergoes organiz tion centripetally through cell invas on and the formation of granulations

Closely related to the inflammatory omental tumors is torsion of the omentum. Both ber n with recross of the fatts to ue and lead to tumor forma tion (n the cl nical sense) with f brinous adhesions to the surrounding tis ues In torsi n of the om n tum the cause of the tumor formation is the initial compre s on of the veins i hich leads to stasis and hæmorrha ic infarct on due to the mobility of the arteries resulting from the increasing torsion. With the omental tumors of the Kuettner Schmieden type there is embolic or thrombotic occlusion of the blood ve sels which lead to sim lar pathologico anatom ical charges. In the remaining omental tumors the circul tory I turbances responsible for the changes are of an inflammator, nature

From his findings in studies on the spontaneous healing of crushing wounds of the liver in dogs the

author has come to the conclusion that this healing is always brought about by adhesion of the omen tum. As the result of his investigati in regarding the influence that brings the great omentum to the vound in the liver he a sumes that since the omentum lacks contra tile elem nts the livery un l in some manner augments the lymph stream flowing toward the diaphragm and that the augmented cur rent wa hes the omentum passively to the lyer wo nd where it then becomes a therent. If the assumption were correct not onl the intact omen tum but also the omentum 1 olated an l d onned into the abdominal cavity would be washed ago not the injure l liver This hovever is not true. The i olated omentum dropped into the abiominal cavity remains a here it falls ball it elf up into an omental tumo and becomes attached to its surroun lings An omental tumor so f rme l is both m ero copically and micro op cally an inflamma tory omental tumor as it sho a c itral necros s of the ellular tissue fibrinous adhesions p occeding from the p ru hery and connective to sue organiza tion from the surface. It has been n ssible to 1 ro duce a tumor like structure co responding to an infla nmatory omental tumor only through the tro luction of a circulatory disturbance such a occurs in cases of omental tumors of the Kuettner S hma. den type and t r ion of the omentum in man. The p oduction of such experiment I omental tumors i always to sible th light on of all of the omental blood vess is or isolation (re ection) of a piece of omentum. The light on of a tag of omentum al o results n an mental tumor d stal to the l gature That the formation of an artificial omental tumor does not requi e n bdominal mil eu is e ident from the fa t that a piece of omentum lodged preper toneally as ma T im operate n and I gate tat its place of 'ut from the abdominal cavity de eloped an omental tumor YON LOBS LR (Z)

GASTRO INTESTINAL TRACT

Bainbr dhe W S Ga tro Inte t nal D ert cula

Diverticula of the gast intestinal tract are far more common than is generally supposed. They re divided into two classes the congenital a d ac quire! The a quired are much more common than the congenital The cause of these intesti al po ches is still more or le a matte of peculat n The most comm n of the congenital structures which remain in the adult intestine is Meckels dive to culum described: 1905 and pr sent in per cent of subjects. This die ticulum var es in le gih a d hape and is usually found from a to 4 it also the pleocacal o if ce I ept c ulcer may be p e ent in divertic ! n ch ld en The most const nt sign n the condit n is a t stin I hamorrh ge Th only log c I ther peutic mea ure surgic I emo al of the di ticul m

There re three t pes of equired d erticul the inflammat ry the tr umatic a d the evolutionary The most walely recognized at the inflammatory. The traumatic and inflammatory type as experience of the related and inflammatory type as experience of the related and may result from perforated uses an acceptance of the colors and the related and the property of the present of dispertit when the property of the prop

Acquired dive ticula are mo t comm n in the large intesti e and next most c mmon in the do denu n. They may become acutely or chron cally is flamed and may contain concretions and un lergo

mil grant changes

Directivals althout symptoms of lifering treatment leriforation with localized ab cess or per initial indicate prompt surgical tetrention. Chan thicken ig of the mass with obscute symptom demand exploritus. The dagno of a douode al diverticulum may generally be considered as in dicating a su goal operation.

Di etite la of the chronic typ may be elim nated by such simpl surgi il procedure as cutting bild and straightening kinks since by the frieing of angulations back and pressure is elim at d. Ex trime cases may call for more rail al surfery.

tr me cases may call for more ral al surgery.

Med cal treatment cond to make pin the stool soft or liquid. If his henemas are sed they must be go en with great care and ith minimal pressure. The administration of bismuth o barium by mouth ty see weekly as beneficial.

CRILJ GLA EL VID

Burg ss A H Can e of the Gast o I testinal

In 1924 th re were 50 389 deaths from ca ter in Engl ni pi Wales Of th 266 o-that is more

than one half -1 re due t cancer of the alim ut ry

Barge ttathatthegrdunlon.etof indges tion sithout ob ious ause especially in males beyond middle age and persons pot prevously afflicted with dispep in should always exc to the su picion of a ca cinoma of the stomach art ing as it do s in the midst of health (Ho der) On the other hand a history of dy pep in we of many ve rs le gih does t'ex l'de arcinoma s'the latter may be ener feed upon a very chronic ulcer I addits los of appetite an uneas, f h g n the ep ga traum mer ed eructat s of wind naus after and ometern s b f re the a gest n f food and occasional slight om to a may all be n t d n the early sta s of carcinoma of the stom ach The import at point h ever is that in early ma ca y il e vaptoms are but bill if at il relie ed b c r ful dieti whereas in ul er and other ron n al gnant ly pep ias di t ng gi s con able relief

The th e most ge easily pplc bl pecual meth d of phy scal e am s tion are test reads the search for o cult blood in the sto l and stay

examption after a b muth med. The test med is of undoubted value as one link, in the chun of contract but the pre-care of free hydrochizer and cot be looked upon as evoluding a milignant growth of the stomach and its ab once cannot in stell be held to ind case the presence of such a le ion. The persi tence of occult blood in the stool in a case con dired on other groun is—clinical hi tory. Yray app trances etc—to be ore of chronic simple ulter jet true fly suppression of the

supervention of a malignant chan e In the operative treatment of castric carcinoma the attempt should always be made to perform a radical operati a The first question to decide in hether any condition is present a gren cre r thich remove all hop of a radical removal. Con train he tio to operation are (1) enlargement of the liver especiall if it i associated with um bilicited no lule () ascite of a legree sufficient to be detected climically (a) enlarged gland in the supricl icular region particulary on the l ft sile and (4) ec n lary p ritone l depo its engrafted by gravity upon the pel ic perito eum and detect of the rect vesical pouch A mas palpable through the abdom al all is frequently held to contra indicate di al m a ur s but does not neces arily d s Op ralility depen is more upon fixity than pripal hi

Contra in list in storad call operation di cover below off fee ligar toms. () Small secondrisheo off fee ligar toms. () Small secondrisheo off fee ligar to ligar the light li

raith the groth

The early lin nos of can r f the colon par ticularl imp tant b cause colonic cane ri one of the I ss vi ul nt typ f ca inoma it usually run urse t slo to inva le the lymphati ves I and glan! nd it f m meta tases h fly ın alvan i a There are two main typ s of carcinomi ec in th lon (1) i cauliffine o I nuat ng type h h rarel cause marked ob stru tion f th be I but ten! rather t b ass coat I thul att n nl situated m stly in ght halt f the colon and (2) the st u tur typ m st fr quent in the left half assort t ith m k lot structs n and rar ly in vivig n | g rt cal tent f the bo

The list work in stream of the colon at his list like list extends the bord list. I had be extended the bord list in a man or upstured and attended the properties of the history of dispital of the history particular that the transparent of the history list that the transparent list is a supported by the list of the history list that the dispital strength and the transparent list is the list of the l

1 not usually as ociated with these evilences of of truction but tend to cau e diarrhox and the passage of mucus and blood by the nius. It is in this tipe that blood may be lost in smill amounts over a long period of time and there may be such marked anymia as to leaf to an erroneous diagnosis of perincious anymis.

The early physical st ns are the e of gradually increasing ditention and hypertrophy of the bowel proximal to the site of the growth. The outlines of in hi thad distinct coil are vible under the abdominal wall and a peristaltic wave passes at intervals along them. Too much stress examot be luid upon the diagnostic importance of the combination of dilate! Interval color with visible (or pulpable) pert talsas at invariably dinotes the presence of intestinal obstruction.

Burges states that in the treatment of carcinoma of the colon the ideal at which we should aim is complete excusion of the segment of the boxel containing the ero, the to eth reath its lemph bearing a a followed by immediate re toration of the con tinuity of the bowel. Contra indications to thi i leal treatment are (1) secondary Jeposits in the ln r (2) metastatic peritoneal deposits-such as are especially likely to occur in the pouch of Douglas (1) glandular involvement beyond the limits of pract able surgical removal and (4) local extens on If a radical ope ation is lemmiely contra and fixit in heate I a short circuiting (that i lateral anas tomos) hould be perf) med provided there 1 a ufficient length of colon below the granth to permit approximation vithout undue tension Only a short c reu ting is quite impossible i it necessary as a last c o t to present future interinal obstruction to fall back on colo toms proximal to the g owth. In cases which are already associated with inte tinal obstruction measures for relief should be taken before ral cal extrepation with restoration of the ontinuity of the bo el is attempted

The early samptom of rectil cancer are often dinter and are esently the oe of a tumor of the colon I am as often completely all ent in the early stage is hen present it may be felt in the rectum in the sa rum or over the lower ab lomen II a digital examination provise negative a sigmoidoscopic examination shoul I be made as the most common at 60 the given the three text symbol juncture and this may not be reached by the vamining fin cr

Hurst A F On So Called Gastric Hypertonus and Ga troptosis and Atonic Dilatation of the Stomaci G y II p R p Lo 1 1927 1 x 11

The author believes that the type of stomach commonly des niel by contigenology is as hyper ton and dropped are morrerely named and the term g st ploss is 1 appr priate be cause evilence of a true abnormalty in position is a visiting in gastropt si it is true that when the body is in the creet position the stomach falls from

the positi nit occup es i hen the loly i recumbent but eve 3 stomach do s this and there is no evidence that it has fallen from a higher pos tion than it once

occupied in the erect pos tion

Hurst believes that the difference between the hypertonic and dropped stomach is due to anatom ical variations from the average normal length There are just as great variations in the normal length of the stomach as there are variations in the normal length of the trunk and the lim! and in the we ghts of the bra n and the heart If the o Lan is hort it assumes the diagonal or alm at horizontal position of the so called hy pertonic stoma h s hereas if it is I no it as umes the vertical no ition with the steeply ascend ng pyloric part of the so called dropped stomach. These two types of stomach should be re named re p ctively the short and the

long stomach and should be regarded as nothing more than normal anatomical variations from the

stoma h of average length

The author d ubts whether true hypertonus ac tuilly occurs There is a hypotonic st mach cor espon hig to the atonic dilutation of the st much of the pre r entgenoloncul period but this is are and in the absence of orhanic d sease is re er of clinical significance being found inci fentally in routine roentgenolorical examinations. Sever hypotonus may occur as a complication of pyloric ob tructu n In prolon ed or neglected cases true atory may result

The dr n of the m ill n rt of a long stomach whi h occurs on the assumption of the erect po ition may give n e to symptoms especially if it i asso ciated with true hypotonu but th can occur only when the periton al covering of the descending part of the duoden m is a taut that it does not allow the entire fundenum to drop when the subject stands e ect The kink or d ced di appears hen the re cumbent pos tion is assu ned The co diti nisanal

ogou to nephroptosis ith Dittis enses In Hu st opin a the orthotonic stomach of Schlesinger should be alled the ston chof a e age

length J COB M MORE MD

Strachauer A C Cong nital Hypertrophic Py lori Sten si A 5 e 97 i

In consental h pertr phe pylone stenos s the ovl ric re i n is occupted by a sharply defi ed tumor mas of unknown tiology measu ng from s to 1 a n in length and f om 13 to 6 s n in diameter It 1 of a firm nearly cart lag nou con si t ncy and covered by smooth gh tening per to neum free f om adhesions Is compa ed with th remaining po tions of the stomach and d odenum it is of a whit h pale colo I th logically it i pe s nts mass ve hypertrop hy of the circular muscu latu e of the polorus Ip to the thi demonth of age the hope t phed cir ula mus le mersur s f m to 7 mm in thickness As a rult f the tum t to mation the p lo 1 canal become steno ed and greatly lengthened meet meally ob tru ting the outl t of the stomach Smil r changes in the mus

culature of the stomach and the lower portion of the resophagus may be found

Hypertrophic pyloric stenosis is associated with explo ive projectile comiting after each mest ac companied by isoperistaltic naves As a re ult [the obstruction and vomiting there may be no passage of faces or the stools may become meconium like consisting of bile and mucus the urine becomes scants dehyd ation and acidosis develop and the e is a rap d progres he loss of weight Roentgen ray

examinati n has not been found helpful or necessa y The condition occurs more frequently in the m le than in the female. The oper tion is never an emergency procedure l'edutric medical manage ment should always be given for one week. At lea t from t elve to twenty four hours is well spent in overcoming the dehydration and acriosis Ga tr c lavs e should be done feeding efforts shuld be continu d and most important water should be

given under the skin and by rectum

The Rammstedt operation in which a long tud n l turision is made through the tum r mass don t the mucosa 11th spread ng has become the standard and saf at procedure. The lo gitudinal inc si n through the pylorus produ es the transverse div at n of the circular must as in cutting of a n and leaves the n usel a without or gip or inserts n As a r sult the curcular mu cles retrac and undergo disus atr phy with permanent di appiar nee of th pyloric tum r mass. The encrotchment on the py loric canal by the infolding of the mucosa sum

m diately rel eved

In a series of forty eight cases two gastro-ente s tomies and forty six Rammstedt operations were performed with one death. The operation is per formed th o gl a sh rt high upper ri ht rectu or perimedial arci on ju t lo g enough to permit the deli ery of the pylonic tumor and sho te i h to prevent any other evi eration. The næsthet e f ch cessether The [rain room houldb m a ta a d at a temperature of 80 d bree I On com pletion of the operation the child should be wrapped in na m blankets and pl ced in a crib which h s been normed v h hot wate bottl s Feedi gs may be begun from the e to four hours afte the ope a MERLE R HO

Bruett The Pol of the Gastric and Duodenal Fl ra in D case of the Storm h and Bile! s g s
(U ber 4 k R d U se u d D d mf ra
b d k 1 k g n 1 s U r u d d r C h
g) Z bil r D 10 t

By tudies on a larg number of cases the auth r substantiated the theory that the normally acid and by serae d sastric juic 1 usually sterile b t that n car noma very num o Ands of bact ma ar to b found am ng th mm nv ki d of streptor c i In a clats is large percentage of ca s i jer forated and ch onic gastric and d od al ulce th nere gr en route streptococci some f which showed the charac en ties of lact c cid treptococ i de cribed by Britter I 52 per cent of c ses of per

forated ulcer this streptococcus was found usually in pure culture. It was present all o in 18 per cent of cases of di eases of the biliary tract and in ome

case of cholangeitis

Of fift, strams of steptococcus a por cent resembled the streptococcu vindrais both culturally
and in its reaction to Schottmueller's bacterioid;
te 1 These green steptococci are to be regarded in
part as lactic and streptococci. While in cases of
uper the scene do be pre ent only as harmles
parasite and on perforation caused only a very mild
peritonit: in the bule passaces they produced acute
or chrome though mild inflammation. However
according to the authors e perience, the color
baculus plays the chief role in inflammation only 5
per the color of the checken. The finding is in contrast to
that of Gundermann who found the staphylococcus
in 70 per cent of fine the closures.

In the discussion of the paper Stich cited the bacteriological in estigations of Meverink which have proved of value in the differential diagnosis and progno 1 of diesess of the stomach and tho e of

the bile passages

KONJETZYN called attention to the high disin fect ng po ver of the gastric hydrochloric acid

Lowin cited the great impo tance in the prognosi of perforated gastric udcer of the change of the gastric contents from accidit to alkalmaty with the consequent chain of the normally, non pathogenic flora to a colon bacillus growth hereby the prognosiders to a colon bacillus growth hereby the prognosiders to a colon bacillus growth hereby the ground udcer 1 generally, and red undistorbile. With regard to the green growing treptococci in gastric and duodental udcer Locher maintained in opposition to Bruett that they are different strains of lactic and triptococcus the harmlessness of which to man he hap proved on himself and others by mass ive impettio s. Lor z. (2)

In one of five cases of perforated ulcer reported by the author the e was no rrevious history of ga tied turbance. Uthough thi is unu ual the possiblity must be borne in mil d.

The I call at on I the ma m I pain in the right lower quadrant of the abdomen m v in gast ic and duod al ul er lead to an err neous liagnosis of appendit its

Bec use of the difficulty of omplete exploration of the st ma h a pe f ration in the card ac region may be v looked. The fotor an inciston should be made in the lift sill before the integrity of the card ac region is assumed.

Immed ate intervention is indicated after per

foratio Only closu of the perforation ne es sary S mult neous ga tr e tero tom, 1 not in dicated unless the p l rus is obstructed by pre

ensting di case or by the operation or there i reflex pylorospasm. If the patient's condition becomes alarming simple extramicious excision of the phine ter may be advi able. The patient's welfare depends le's upon theoretical considerations than upon the judgment of the surgeon.

LEO VI ZIMMERMAN VI D

Aspect of Gastroduodenal Ulcer M d Cl

Ste art W H X Ray F ndings n Gastric and Duodenal Ulcer Med Cln \ 1m 927 x

761
Fische II The Surg cal Aspect of Gastric and Duodenal Ulcer V d Cl \(^1\) Am 1927 62
Rondenburg G L Tile Pathological Aspect of Gastr cand Duodenal Ulcer M d Cl \(^1\) \(^1\) Im 1977 66

KALTHAN Gastroduodenal ulcer is usually consol red a local de ease resulting from di orders of
gastrie circulation gastrie secretion or gastrie
motishly physical chemical and thermic trauma
tism of the gastric wall derangements of the auto
ori variou kind While any or all of these may
play a more or les important role in its develop
ment other factors involved are constitutional in
fluences

The regular occurrence of hunger pain does not necessarily mean ulicer nor does high gastric sending assembly moved in the continuous particular to the continuous particular to the continuous particular to the continuous particular particular products of the ulicerative process and does not each the deeper causes of the disease Individualized treatment based on an unlerstanding of the constitutional element will probably reduce the number of cases developing the more severe conditions

STEWNER Gastric and duodenal ulcers are recognitional continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products are recognitive to the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products and the continuous products are recognitive to the continuous products

STEWER LASTIC and duodenal ulcers are recog in ed by roentgen ray examination in from 85 to 90 per cent of cases. Even when the ulcer is small in early cases there are usually secondary signs such as tenderness and spasm. The \tay tandings are most positive in penetrating and perforating ulcers.

FISCHER The indications for surgical intervention in gastic and doudenal ull ers are (1) the cases of path ints who are not free of symptoms after competent med cal amanagement (1) pylonic obstruction not relieved by medical treatment (3) repeated hamorithage (4) perforation and the penetrating type of ull er. There is no standard routine surgical procedure. It is only after the abdomen has been opened and the diseased parts have been inspected that the type of operation indicated can be determined.

The conservative operations are gastro enteros.

The conservative operations are gastro enteros tomy the different types of pyloroplasty and local e ci ton of the where with or without gastro enteros tomy. The radical procedure is resection of the stomach and pylorus. The conservative operations

if projerly p rforme I and use I in suitable cales vill cure a larg number of gastric and luo ten il ulcers the per entage I cing estimate | at fr m 70 t go I reent Hovever in a smaller percentage of these cales the symptoms recur and an ulcer le selops which may il clant perferate. The author I heves that rad cal operation m asures give the best en I result and he r stricts the conservative measures to pat ents who are poor risks or pre ent insurmountaile enerati e dificulties. In both g tric and duo i natulce the least larea together with al ut one thir lof the stomach is re ecte land an end to end antecohe and t m mit of the stomach and jejunum with a long jejunal loop a perform ! The imme frite operative mortality is from 5 to 7 per cent This is higher than that I go tro-enteres toms but the remote mortality of go tro-ent ros t my is so high that the tot I mort lity excee is the mortality of rese to a Hypo acidity or anacility is produced and protects the pitient again t future ulcers in either the stomach or the 1 w 1. The patients remain amy tom free and are not of lige ! to restrict the r di t

ROBLENBURG In 12thology of the local condition ful er of the tomach and du lenum is il La wa but the constitute naire i no ite a mor of scure. It is likel that a large number of ga true ulcers heal rapidly and do not tro face sympt ms Man ulcur en est resent amptoms referal le to the append x or gall had ler bel re tie o eu ence of ulcer symptoms. In each cases I s as of the ganglion cells of Auerbach an Lof Mer per stl us s have been d mon trate! It is no sible that si nilar le ons re present in other parts of the extrointestin I tract. In rad cal gastric rese ti n it m y be the section of the nerve supply rather than the remo al of the acti glands that causes the improvement

In the h us on following the symp sum EINHORN stated that the p reentage of ul re that can be lemonstrated to nig a graph il atl po try findings i not as high as 95 D tiest penetrating ulcers can be cur ily no he litrat ment had alre ecti n is not to be u e fas r utine tr atment

Whenes r 1 sill cales of galtric or HE SEL duodenal ulcer sh ul I to trate I me heally 11 e las es occur surgic l'tre tmest of a c nature 1 in heatel a d f ll wig oper t n th patient sh ull be r f reel b k to the clinician for

lurther ob e vation LAPORTE In 951 cent f ses ilcer anot be open unic lelule and the life to tel from a healed one Re aus of the politic of the divelopment for ungel trainent is mr fr quently : ! teling ti ul cth n n luo I nal ul r

GARBAT (ta secriti and mitility annot be atticl elimi it 1 ?; du ? ; ahment ? n unle att ! are adm t d ! m th lefore ech dud Ifcding t talz th g si c se rett n which is usually associate I with due I nat BLUNCERTEA Cases of gastere neuro is and olerof the stomach how a decrea ed blood calci m and also reset markelly to my cts us of pilocarps e in I cating an autonomic ly function in the direction

I vagotonia The condition may be a neuralga or neuritis f some of the I ranches of the autonome n ryous system innervating the stomach and s gical treatm at coast ting of resection of the gastre l anches of the autonom c nerves or their ganglion

may offer a better cure than subt tal ga trectom TORFK Castri resection i the operation of ch ce only in case in s hich the g tric ulcer is in the I wer h if of the stomach. If the patient is in good confit on it go se cell at re ults in perforat d ul er I the toma h Ulcers n r the c rda sre be I treated I g tr enter tomy lut may be treat lalso ly injetion of no proten In du denal ul er imil gastro-enter toms is the best fur

SIFTIIN The surg cal tr atment f gast olu lengt ule e cannot t tandardize) Act e pal ric i leers or ulcers I the le ur curvatu e in the I er I alf of the st m che should be tred by In ul er i bich ai pea s innocent m cr cor all may be malen at mir copically Becaule I t ha cal lifficultie ulcers high in the le er cury tur an lexten v saidle ulcers sh uld he tested by a full tive peachine extram or cauterizit n combi I with ga tr entero tomy u unlle gre giol te le Cesto mi pine se n is 1 st treat 11 p ten r r troco g stro ent ro toms. In se forat I gastric ul ers simpl sutere fth ul er ith an a lie lgast o enter tomy should be do e if it pats t is in good con to a Lumry resiction is u ally contra i deat d but may I sicce slul in ert in favorable case

Smill and acut duo len I ulcers call for a ga (oe terost my rather than a radical resection. In el r me ul r peneti ting i to th jancress or h er raleal tese t n sh li be l if the technical diff ulties are not to s gre t an I hi is n t jeopard ize 1 b the oper 1 n The ope att a may be d ne stag s fret a primara g tr ntero tom an i seme tine later a pa tial er sul total gastree t my In jerf atel I In I ul ers the le r sto libe it I by suture and if the perforiti n is no older than tw he hou a ad led g tr ent r t my hould be pe f rme! The new te ginal f J junal ul ers follo at gastro

tr thy is about gpr nt I cork Snyle and per teng de tent ulcers il to apterie gat ente of manh le re-ect in sholl be re evel fo cas with repealed I am rrhige o in bi h malig anci i s spected I tg t uler te tin them thod of chice Ga tr -t t ro t my houllle re rvedf rth acut p f at n and ca sin heh the ge erat co di tio s ontra i l te subtotal gastrect my Not Il pat ents ith I stress f llo i g ga tro entero t my ha assntuter

BLCKY Since gastroduodenal ulcers may be due to di orders of the autonomic nervous system it is possible to influence the splanchnic organs by treating large regions of the skin with the V ravs I hysical treatment of the autonomic nervous sys tem has given e cellent re ults

GERSTER There may be a racial di i osition to ulcer formation The use of clams and the scrial ligation of yess Is may predi pose to ulcer recur

Mexer When a diagnosis of gastre luodenal ulter has be a correctly establ hed the patient shoul I be put at complete rest and on duo lenal feeding Intravenous injections of novoprotein are al o advisable. If there is no improvement after se eral weeks surgery 1 indi ated It appears to be th consensus of opinion that resection is best for most gastric ilcers whereas gastro entero toma is preferable f r duodenal ulceration

CYRIL | GENSPEL VI I)

Carter R F Le Operati e and P stope ative Treatment in Pat ents ith Gastric and Duodenal Lesions 5 g G & C Ob t 927

The operative technique for gast 1 and luodenal lesions have g been fairly well standardized the auth r believe that the other fa to 5 contributing to the suc ess of the t eatment should be standa d

PRE OPERATIVE TREATMENT

Imp tant features to be determined hel e opera tion for a gast c r du den l les on are those related

Of tre to change in the ph sologs
Of tre to The presente of batra tron max be leterm nel by \ray examin tion and f om a hi tory I com ting. In the event of obstructi n n th accumulate n and stagnat on of fore gn ma terral functi 1 interfered 1th to such an atent that g str c la ge becomes important Repeated all gv th the stomach tule two or even three

days bef e operation is nece ar The should be done two e or the ee times a lay. The solution The should be uelsh ller t in omin ms of dil te hidr chloric acil to the quit 2 Hyd hl r i it tot the st teh In

the absence fifte half hipric acid as determined by the test me ! nierti n of the vound hy con tami ation the t man he niert may be prevented by per le ning nd the alm istration of ly lr hi re i lb m uth Both in the water uel n la ge nd n that taken a fr nk (arter ue 6 lr 1 to the ling las ftal te When held held a digresent in normal or eve equitie impligated vage hield u lefo e ope ato t lane the tmch will be utl 1ent

al ith b! I In th anamia fr m agt tricl ion the est n fallg area of the stoma h i mad i al le until the næmia h been treated by mose than the or is any amply replace ment of bl o! Tr n fust ns m derate in amount

and repeated two or three times over a period of two or three veeks greatly reduce the possibility of death from shock infection or cardiorenal failure 4 General metab lism No patient except in an

emergency should be operated upon until knowledge has been obtained of the blood chemi try and carbon

dioxide combining power

5 icidosis A carbon dioxide combining power belon 40 indicates an acidosi equivalent to starva tion Symptoms of acriosis begin when it reaches 35 If possible operation should be delayed sugar a imini tered by mouth and soda bicarbonate given in 4 gm doses dails until the carbon dioxide com Lining po ver is above so When delay i contra in li ated gluco e should be given either sub cutaneously in 3 per cent solution intravenously in s per ent solution or rectally in 10 per cent solution or by a combination of these method. When the carbon dioxi le is beloi 30 gluco e 3 per cent and so la la arbonate a per cent should be admini tered in 800-c cm loses until the carbon dioxide is so

6 likale 15 When the carbon dioxide combining por er is above 80 it i never wise to operate in any emergency e cept that of ruptured viscus. To reduce it sodium chloride given intravenously in 2 to 4 per cent solution in doses of 1 000 c cm is sufficient in the ase of patients ith obstruction. In the cases of patients the have had a long Sitt routine the alkalı shoul I be discontinued one veek before the operation and a regular diet pre-crife! Alkalo is due to comiting can be relieved by giving 15 minims of h drochloric acil to 6 oz of ater by mouth and ectum and 000 c cm of normal sodium chloride subcutaneously each day

7 (the ses In the twenty four hours preceding operation cathar is is contra in licated

8 (at: 11 of Ordinary tap vater with the

addition of o minims of hydrochloric acril to the cua t may be u e! The last lavage should be done five hou I efore the operation

q I edi g In case th non of structs e lesions feeding should go on s usual until eight hours I efore the operation In cases the ob truct on flui I with carbohy drate shoul I be admini tered in the form of ten or nge juice ice crean sherbet eggnog etc duri g the first s vie n of the twenty four hours even though gastric lavage 1 being practiced twice tail) Freding hould take place one hour after la age an i after the List lavage nothing should be taken nto the stoma h Throughout the twenty four h ur the mouth may be used If fool cannot be taken by mouth le au e of ol stru t on it should be a imini te e i subcutaneo sl in 3 per cent glucose and normal saline solution

P STOPFRATILE TREATMENT

P 11 I in hullte prevented by an injection f morphine before en jou ne returns With the first m ment in the pe nce of regular e piration and sulse ate a hyportermic injection of morph e g for lults un ler 150 lbs and 4 gr for adults over 150 lb should be administered

This enables the j atient to go from the sleep of ether

into that of morphine The dose shoul i be rereate ! in & gr injections for patients weighing le s than 150 lbs and 1/ gr injections for those neighing more than 150 lts often enough to insure sleep or quet

for the first eight hours

2 A stl sen se and general decomfort Restlessne is a very important symptom being an evi lence of hemorringe r of fluit stars itim It i not a in ptom to be releved by morphine or other eds tives unless the patient is a be tile lover the period necessary for the in titute n of measures for perma nent rel of Th t feeling of unre ta sociated with sching of the entire I sdy is soon I li well by a great leure fr a ling trink if omething acid but a frink of tap water will satt fo

I ost n When the patient is quiet the head rest hould be raised and the foot re t put in place to allo the stom ch to function ly gravity

4 P le The pul e shoul | be taken every hour f r ix lours in order that in the absence of vomiting imme liate postope iti e ham trhige may be di

cine e Learly

s I red ng Mer the first f ur 1 ur 2 or 1 oz of ater is mouth with ugar an i flavoring such as tea may be go en every three hours in the c til rant patient 402 fwater with 41 er cent glurose L less the pati nt is emaciat d hypodermoch sis s rot in hate! In ca es sith emaciation 1000 ccm of norm I saline solution and 3 per cent glucuse should be given subcutaneously during the second t el e hou s By these meth is 6 oz of flui I should be go en by mouth an 1 6 oz by rectum an I any further nee I made up by hypodermocks is up to 500 c cm with carbohydrate yiel ling 300 cal nes

In the ec ad twents four hours the intile houl ! be fluid with a rhohydrate c ntent sufficient to re, lenuh the store (carbohydr te utilize ! during the first to enty f ur hours and formsh an a l lite nal am unt for energy combustion of the ti sue toxins Flat retants etened fluids in 3 oz 1 ses should be gi en every to or three I rs If nausea or enigastric listres occur they should be li con t'nued f r from f u to 1x hours. If the nausea or epigastric listre s till p r ts after six hour the st mach hould be lavaged an I the feedings resume ! in 1-0 is set cy the hours and another trail mad with the larger do es after eight hours. Thus! should n ver be given by rectum on this lay Hypod rm selvsis is indicated for emacrate I patients an tho cah a mit

The blo d should be tested f r arbon doxi le at the time If the carbon dioxi le s bel w 40 3 per ce tglu o e loul l be administere l subcutanco ly If it e carbon diori le is below 30 3 per cent gluce e should be give it a en usl in am nts 1 500 e m ail la li arbon te in 10-gr d s s lis solve lin tan s ter should be given e erv four hour In allitto il t apercent sh ull be u el m the solutions given intraven usly "Il's nill aid in re

establishing the acid alkal balance

All fluids shoul I b given either cool or at a tem perature above 60 fegrees

During the tli I day 4 oz of tea tap water and orange or lemon pho phate may be given every three On the fourth day fee lings should be made up of septonized milk thin gruels custards and junter with cream and sugar 4 oz every four hours with

fl it id libiture at least 1 500 c cm On the fifth d ; the feed ags should const t in loul le bake I potato with butter soft tox t cere 1

gruels purie of peas and pinach in live feed ags ! 4 02 It least 1 000 c cm of water should be taken From the sixth to fourteenth day I ecause of the

danger of lertage the food sho It be made up of starch as a base with sufficient fat an I other substance On the fith tay a pos he le gan I minced chicken may leaded Thefeling should be given in amounts of g oz fve times a day After the fourteenth day thef lio ingdet shoul i

le follo ed and rigidly sussets upon for three months milk 4 oz cream 1 oz to be taken with

menl cooke I cereal vith cream an I sugar one bowl a poached or s ft boiled egg apple sauce stened petrs or stewed apricuts one p rtion

II joam mlk joz cream roz Ipm milk 4 oz creim I oz to be taken with meal creamed vegetable soup scraped or gr und I mb or beef minced chicken or the heart of a lamb chop mashe lp tatoes mae rom rice mashed peas creamed celery or a paragus custard or pud hag with cooled ituits

3 30pm milk 402 cream 1 7 7 pm mill 4 oz ere m 10x to le talen with meal creame I vegetable soup rice in caron cereal any form of eg table pur e one gg cooled

in any manner except not fried After three weeks any cooked and finely divide ! s getables may be given with the except on of

onions beans cauliil wer cabb ge beets and th (barb

6 Catha is Milk of magnes a I to oz in twenty four hours may be given during to second twenty four h urs or thereafter

COMPLICATIONS

Hemorrhage into the stomach or intestine al 13 \$ occurs in me quantity. If there is a rapid an l marked increase in the pulg tre lavage offe \$ a sure mean of stopning it S gas of br ght blood in the lay ge after three is age tene ted at two h ur inter als in licate hamorrhage al ch is best on trolled by the usual sure cal measure. When signs f hamorrha e c atique to the dange point tra s fusi hishoull bed e Autila age is ne er in l'ested for any t pe of comiting after operations upon the stomach or luodenum and is never as certain as gastric lavage with a tube

When a gast o enterostomy or a I of a operation has b en performed the comiting of b le after the first eight en hours indicates that the duode al contents are entering the atomach. In the presence the very singularity sign the should be use 1e ery twelve hours. Feedings by mouth with the exception of those gaven imme intelly after an 1 three hours after lavage should be slooped until the return from a certion of the tube show s or ϵr less of b le and stomach contents. When this point has been rewhelf the feel highs should be resumed and the resumed and the resumed and the resumed that the resumed and the points. The type of vomiting will usually sub-1e to on the third of point day wholes it is due to mechanical of struction other than that Γ roduced 1/e oftems 1 the toms.

I ers: tent an i opious comiting be inning sud lenly after the stomach contents have been appar ently normal for a peri d of from fi e to se en days and cat s ome form of so called vi iou circle The chief lange is either alkalosis or act losis. Gastric livage houl I be done as often as the patient feel di tention or there; an increase in the pul e rate of 20 above the a erage A 1 per cent solution of lution in quantities of 10 oz should warm salın le intr luce l lefo e the return flo is released The chi ride and fur lintake shoul I be kept up and the se adminiter d by rectum subcutaneously an l in extreme cases by your. The patient should be treat 1 in the man or for from ten days to two weeks if there in visit le nen talsis or sign of dis tenti n'after ga tri lavage

i do! When 11 is its is suspected and the car bon drow de fitted 101 i elle 0 so glucose 3 per cent and so l'il rionate 2 per cent in amounts of 800 c m houll 1 e a im misered intravenuly ever fiveh utilhecarbo diorite; above 3; Metrih p intireathel 3 per centifiquose should be a immine ci beutaneou h 10 per cent gli c 2 a 1 per ent ola beard on tel by rectum anighto e hullbenediu [1] and [1] of the lift. The terminate of visibles us both we-

It is the testment of alkalons is both prevent in a trust e. Indisons of to a per cent of um h red but a hould be given a amounts of 800 cm. It is a hould be given a amounts of the trust of trust of the trust of t

and the use flinge im unt of warm saline solution ill relieve hock by emptying the stimach of blood clot etc.

Int of Pitth Obstruction of the pyname release may ure The frame may be elp at an time fur; their rich coeks of convalencence tis; mi, i i il i variil is chi riles an early tis; mi, i il il variil is chi riles an early tis, mi, i in il na pitti ele na urea, the carbon tis, mi long pitti ele mi urea, the carbon tis, mi long pitti ele mi tis mot technologie. The carbon technologie mi tis mot extremel rm. The fect ion to oper team, be bac il upon the blod of finings alone. The early intra

venous a liminstration of sodium chloride in a p per cent solution and in amounts of 800 cern should be done every five hours. It drochloric acid should be administered by mouth and by rectum to the limit of tolerance of the mucous membrane. Operation should not be delayed unless there is little or no chante of recovery from it. In obstruction of the colon the treatment is essentially the same but there i more time to spare as the danger; late and death more remote.

Personats There are two ds unct perso I during which personates occurs. Incoling contamination due to intestinal or atomach contents. During the first forty e.p., the hours the contamination may be due to solving at the time of operation and between the mith and eleventh days to leakage from a suture line v hich faile I to beal before the suture material lost its functions.

Sudden pentonius occurs on the mnth or tenth day when the poined cider fail to head. Death results after from thirty six to forty eight hours unless the leakage is in the le ser sac in which instance a subphrenic abscess results. An abscess anterior to the liver may result from a slo let k. Death usually occurs in such cases from infection or starvation. As soon as the purlent dicharge is replaced by normal gastric or duoderal contents an attempt should be made to pack the sinusy it in plan for the purchase of the sinusy it in plan for the purchase of the sinusy it in plan for the purchase of the sinusy it in plan for the purchase of the sinusy it in plan for the purchase of th

Recovery depend largely on the nursing as fre quent and concentrated foods in small amounts must be urged upon a patient ho i repelle I by the sight of food Blood analy es every three days insure against an unexpecte I complication of acidosis or alkalosis Supplementing the flui I intake by subcutaneou inje tion of saline olution should be a daily routine Gluco e should n t be use I as it cannot be employed daily for the length of time re quired without causing inflammation Rectal feed ings should not be give because they soon cause irritation and are the cau e of the diarrhort high requires more rigorous method for the admini tra tion of food and water The diarrh ea is either caused or soon followed by an act to is which can be checked only by the administration of soda bicarbonate by mouth alkaline colonic irrigations and withholding fat by mouth

RAYMOND CREEN M D

Ei el herg. A von Our Experiences in the Treat ment of Gastric and Duod nai Ulcer (U e er F l'h u g mt d Beha fi g d M gen und D de l'Ul j d Beha fi g d M gen und 7009

The master of surgery on F1 el berg reviews hi erpe ience in the surgical treatment of gastric and duo lenal uler. Mte a d scussion of the many acl often conflicting theories of the cause of gastric uler he concludes Unfortunately, the ethology of uler is not yet clear. This is true at least an obmajorith of cases. In exceptional cases, to may
recognize the clinical agent as go as chemical injury causing eros on of the stomach. In rire
cases a cause favoring the formation of an uler is
not alone responsible for the is on "one of
the ulers so far pro luced experimentally have been
similar to those to unally surgeons.

Non Eiselsberg believes that the diagnosis of ulcer is well established (Haudek Clarmont ulcer niche) In his of n cases at erroneous diagn sis as

made in only a per ent

Following a review of the history of gastric pur gery the author r viet sh sown experi nces In one of the first case operate | upon ccor ling to the Billroth technique the ulcer recurred an in massive fatal hemo rhage resulted. With von Mikulicz he considers ga tro enterostomy the ope ation of choice for all except carcinomatous ulcers 1 ut since this procedure may be followed by repeated ham o hages f om the ulcer which is left undisturbed by the peration he does a u ilateral pylonic exclusion in c ses of onen pyloric ulcer. From the procedure he has obtained very goo I results. Although pepti ul et is believed to o cur more frequently after this oper tion than after gastro ente ostomy (von Ha berer Clairmont Denk) the former has numerou adherents espect lly in America. Finsterer upi le mented it by re ecting a large portion f the pre pylitic re on to de rease the acid secretion of the stom ch lut even the procedure wa followel by pept uler

Including all complicat ons ith the except on of the view of the mility in 160% case's teated by son In elebe gin the period from the view of the mility in 160% case's teated by son In elebe gin the period from the period from the view of view of

and to to ulcerating enteriti On the base of he exten we surgical even nee you El elsberg designate resetion as the ipton of chie ent only for ulcer bit also fir sten

This operati nas followed by acu e more! quentil the mo tality in von Fi l berg 1 st a specases as only a per ni) and by peptic ull erle frequent than other p redure a d aff ris the bet p te tion a nist the beque t devel pment of c 100ms li to ontra indicated he even into cases of vers sk p in this the en with a the unit of the case of vers sk p in the time that the case in the cardid those in which then preases nivole! I dithoe is which there lange funguring the cammon duct

I on Esselsberg has ne er perf) med the operation of Madlener viz resection of the anir m and pylo us fewing ufers near the cardia behind When resection is to dangerous he d es a jej nos tom; but even this procedue, fails at times and

the pres nee of a fistula is unpleasant to the patient If the findings of palpation and in pection are ne attive you biselsherg con dere c retail be one pe forms gar section. At I ke he spupi Liek he heistates to perfor man on ration to pics. In a few cases he perforned a pylorotomy (Payr) but in one instance the was at I erapquife faulte.

In the ca e of a tomach with a ten lency toward the format on of ulcers any type of operation may

fail

The author cites the neest atons of Deek on pet to ulter of the perman I such cases appropriate project or the perman I such cases approached as to hether rection vill remain the method cho ce you Egelberg would hive to anse erm the negative I les state 11 at 13 internal me hunes should find a method of teating ulter the chould re derived the present of understance and the control of the case of of the

Eu term n G B and Buse mann W H (ar choma of the Stomach The Ires at St tus of the Diagnosis and Prognosis J Am 1/ 9 7 1 xx 9

The article is intended to emphase e the menuce of the less familiar circum cribed carcinomatous gast it les on

There re three types I small gastric ulcer one ben in and two mil g ant which are I ten el ically indi ti gui hibl. The ben gir i the mo e commo tends t remain ten in and I ten has its onset late

International and the second of the second o

The necessity for disg ostic ob entos and laborator, eminators or explicatory operations in in creenant to the skill of the roe tigen log 1 Roe tgenological criteria of 1 operability remore

accur e th a those of or rab lity

Intri sie gastrie le ons that simulate carcinoma egistrie philis jimph a m and benigh tumpr I tit elesio are carcinom of the prera carcin ma of the d odenum a la l'acid dis e or carcinoma f the gall bladder. Of the

various c stational diseases that may cause samp! my similar t the evicarcinima the most

unjurjant is permicus ana mai limit the jurio est li juncia have been male in the jurio est li juncia have been male in the jurio est li juncia have presentation in militari to obtorgan cut is see the object est nin militari to obtorgan cut is see the object li juncia li mai timit ni talle in general i pen structural in the militari timit hemosti lifts to malitari establishment establishment in the mental lifts to malitari establishment establish

Lesin I and Juseph B. Castro Fister stoms and Intrate in rath in settin. If Capillarle of Radium Financion in Cancer of the Lyloric 1 of fith Stomach 1 & Cl. C. K. A. 37 1 4

If the neristhem strequent type of cancer it is not her? I sill assers in men and not this fall enters in w nen occur in the 1 min. M. I file uses into free examination reso far ni ne filhat uses I merferen e assume the

It has not the case of feed to recall the specified to th

Schwer & & Clinic on Single of the Stimach

l h f ctilian i ani 1 1 t í 111 i th . taitet furill tat w that fanin who was he 11 t t hil limes tell tente ir th ren t! t thtnr Intmhil n int ; rit eal and thr e extra 1 te i ١ ٧ 1 the tue I the ! Het ty The threes wee t mu 1 t 1th I I num ne f Hefrt £ 11 ii i lile att rate n t (1 1 g 1 triunal ul er 1 1 1 r I I rattir 4× 1 t nt tel r fra er fth tm h 1 1 0 4 1 6 77 2 1 1 g citaliti rir im

Shift is lifting the hill to be active the strain of the limit to the limit to the strain of the str

Hirles J S. 1 till Catreet m. S. C.

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for le tins that may vary greatly anally poptic their in the test gard of the lochemin freeing! hould be given the same in histons for an extensive gas trectomy as cancer of the pylonic ent of the trick of a large affirmating per ticuler all ing the error atture. In a case of limited luder in the trip part of the duo lenum without a liber in some that up much infirst in an which the ulcer can be exceed another part of the duo lenum without a liber in some time that the properties of the same and the polynic phineter and the properties of the same as that in the less trick under the properties of the same as that of each into recurrenting an ulcer area as that of each into recurrenting an ulcer

thin the grap of the sphincter arrant ure in an The path logical condition is cradicated and the pirts are given at least jurtial physical giral reit is weakening if the just much swithout mate

rial alterate n of phy tological function

When such a mall well cir umwribe l ulcer has perf r tel the fr t part I the lucknum this i pe of ful rupla to a greterable to a gratro entere toms It may be us fall in a natrow cin traction illough in cases with marked ten is or exter i eatherin the ti estave been alalla Inmage I by the he are that phy logical function cann t ! restor ! con equently some other type fir elure shoullte lone preferally alinnes is I r pl ty craps ten r ga tr enter stomy When there i much infiltrat on around a per tic ul er the sutures are not likely to J 11 in such cases or Ju on of the pil fu with a tout kangar tend n fied ju t tightly enough to seclude the lumen without ners and a peter rightr enterotemy is the meth lefeloue

In gather copic and er the sud or in reandmore uncle eft in a fuller treet in the right half in terl of a milgature or sleet gestrection. A hapefects in of the like of It the alternation of the term in the to give meghand returned at the view and therefore in the the intural muscular returned at the tylens and therefore whether it is the term fartiful treet in the term for the term fo

In reconstruct a perstrope learns the statisfication is a market real erformed and the squarest first particular and another armala position of the state of the

I delittice arolled to wedlam to final the light peats with the given we also at a Therman and a mass with the et al. theo on the eather at the light the lower curst cold estomath with the lower curst curst cold estomath with the lower curst curst curst curst cold estomath with the lower curst curst

al gament vith the upper border of the duodenum and (2) flaring open the duodenum by making an incision about I in or I in in its anterior wall Thus the physiological algament of the lesser cu vature is preserved and the danger of obstruction is obviated. It is much easier to fold in redundant to sues along the lower bord r of the stomach where tomach and surrounding mesentery and omentum are mobile than it is along the upper border which is much less access ble

If the partial gastrectomy is done for cancer and particularly f the patie t is old it may be done readily under local anasthe a Within the past year Horsley has perf med this operation under local anasthesia on two patients with gastric cancer one 71 and the other 73 years of age Both stood the operation well and are now in good health. He belie es that in the cases of old persons no drug that sufficiently powe ful to produce unconsciousness can be administered with impunity no matter how mu h safer it may be than the older anasthetics Even the use of ethylene which is probably as safe as any general anasthetic is inadvisable. In the cases of your er patients with more vigor and par ticularly if the operation is done for peptic ulcer there i no objection to general anæsthesia. Often such anæsthe a as that induced with ethyle ie may be combined with infiltration of the abdominal wall with novocain as practiced by Cale which gives the effect of a mild general anaesthetic with relaxa tion of the abdominal wall by the injection of novoca n The technique of the operation is de scribed in detail

About an hour or two before the operation the stomach should be thoroughly washed out with sait solution or a veak soda solution. If local anasthesia is emplyed a of a per cent novocain solution to which has been added about 2 drops of the usual adren lin solut on to the ounce is used in freshly prepared Ringer's solution. After opening the abdomen Horsley infiltrates the pa iet I peritoneum for a di tance of everal inches around the nou d and then rather extensi ely injects the gastrohepat c omentum the tissues in t above and below the duodenum and the retr per toneal tissues along the base of the mesocolon Care is taken not to insert the needle too deeply for fear of injuring a ve n but it s introduced well be ath the peritoneum the empections are fully carried out they render the operat on almost pamiess

After the operation the convalescence is remark ably satisfactory The stom ch seems to empty better than it does after a les r oper tion such as pyloroplasty r gast enterest my 110 sley makes a practice of wash no out the stomach about six hours after any gastric operat on to see if there is bleeding and to empty the stomach c ntents If the e is no bleeding this g stric lavage is repeated every s thours He has ne er found mo e than 6 oz of retained material except on one occasion when there vere to oz The p t ent is given oz of water an hour for the fir t day the amount ther

after being somewhat increased No food is adm nis tered until about the third or fourth day after the operation

If necessary intravenous glucose solution may be given This is often used also in preparin the na tient for operation about 1 000 or 1 500 c cm of 10 per cent gluco e s lut on in Ringer s soluti n b given The Ringer's 8 lution should be made with fre hly distilled water and the gl cose olution added If the water is fre hly d stille I usually no reaction occu s Unless the patient 1 in shock the solution is given at the rate of f m 5 to 150 cem an hour though at first more can le adm m tered In this way the patient is not only p eve ted fr m becoming dehydrated but is given sufficient ear bohydrates to tide him over the f st fe days

Careful supervi ion of the diet is es ential after all gastric surgery For weeks or months after the operation the diet should be controlled by a com petent internist

During the last three years Horsley has done fif teen operations are rding to the described technique Four of them were for cancer In one case the ca ce was extensive and the stomach was slightly adherent to the pancreas After the removal of the stomach a small superficial mass in the parcre s was e c sed with the cautery This proved to be inflammatory however and not mal gnant Perstonst s followed the operation and opened the raw surface of the pancreas to an inflammation which resulted fat With this e ception there has been no d ath in the series though the operation was done for gastr cancer in a 68 year-old patient with an aort c stenos a patient of 71 years and a patie t of 74 y ars In the cases operate I upon for pepti ulcer EM CR BITHER WD there were no death

G as Sir II Acut Inte tinal Obstruction Due t Intra Abdom nal Ca e B 1 W J 947 1

All cases of intest nal obstr ction are urgent Besides the me hanical obstruction to the passage of bowel contents the ab rption of toric mate from the bo I and the r p d dehydration of the t ues are of great importance. The to ic subst nees may be bact ri lo the products of imperfect metabol sm of prot 1 s Imperfect metabolism of proteins is de to ob truct on I hup

In infants intus usception is the most common type of obst uction I adults the mo t usual cause of obstructs n of the inte to es are fibrous band internal herma. Me kels di reiculum sol ulus impact on of concret on sudden blockag of a curor c ste o a brou ht n by tuberculo is cancer or a tumor pres ng outside the bow

Paralyti il La caus d by too mu h handl gof th bowel duri g an operation or by the devel pment

of perit nitis is a gra e type of obstruct n With some exceptio s the symptoms of intestinal obst uction occu ith great rapidity The cond ton causes severe pain and s) mptoms of shock 1 peno 1 of c mfort may int rvene followed by severe coli Ly pain in the abdomen and the onset of vomiting. The higher the obstruction in the substitual tract the more intense the pain and the eather and more per is tent the vomiting. After the lower bowel i clean ed by enemata the absolute obstipation is a year prominent feature. In tention of the abdomen

I most marked in low obstruction.

With the on et of bacterial invasion of the bowel wall pare i of the bowel occurs. This is followed by pirtonti and gangree. At this stage the symptoms of tozema are added to those of obstruction. The chinical picture is characterial by a drawn annervance of the face a rapid thready pile a

subnormal temperature steady comiting sweating

A low mortably, depends upon early diagnost and early operation. In preparation for operation desired period to the stomach should be useful to prevent assistation and the body found should be replem the The abdomen is entered through a n ht pararectus in con an and the cause of obstruction dealt with according to the indirections. In desperate case an aetero tomy, should be made above the obstruction and the removal of the cause of the obstruction and the removal of the cause of the obstruction face duratil the patients conduction has improved

I FOW RD BI HEON M D

Stetten DeW Entero Enterostomy Se en Years
After Gast o Ent rost my 1 5 g 9 7

The author eports the case of a 51 year-old woman ith a hi tory of gastric disturbances lating from her first pregnan ; twenty eight years ago A vent al suspens on an l appendectomy vere per formed in 1903. In 1919 a posterior gastro enteros tomy was done p esumably for a cicatricial benign stenos's After the second operation the patient slowly game i weight Except for occasional attacks of ind gesti n and vomiting she remained well until Janu) 924 when she h d a very severe attack of acute pain in the upper part of the abdomen This was a sociated with comiting jaundice and dark di c for tion of the urine. The attack lasted ten days but the easter the patient was fairly vell except for a sense of pressure in the upper abd men after eating For ten lays she had had frequent attacks of pain in the ri ht hypochondriac reg on rad ating to the back

Ph st al exam nat on showed here to be a thin jaundiced noman with sens it eness and ri thits in the right hypochondrum. Her temperature was norm I and the leucocyte count as 17 800 with 90 per ce t polymorphonuclears \ ray exam nations su ested a pathological condition of the gall

bla lder vith c lculi

At operation a ditended purpli b gall bladder contain ing twinth is stones and a calculus im pated in the 1st ductivereremoved Exploration receiled a rm l stomach and a patent unkinked p ti for g sto entero torm near the greater cur ature Athessons I the mesocolon around the anastomo i vere partially I ced in o der to obtain a better vew of the anastomosi

On the evening of the sixth day after the operation the patient began to comit biliars fluid The comit ing continue I in spite of frequent lavage. At re operation to weeks after the cholecystectomy visible gastric peristal is was first een. The abdo men was opened through a midline incision and the stomach found to fill the entire upper two third of the abdomen. The stomach was emptied by a lonentudinal gastro tomy in the prepy loric region The shrunken infiltrated transverse mesocolon was found plastered to the gastro enterostomy 13 dense ad hesions at a point lower down than at the time of the first operation. The afferent and efferent loops of howel of the anastomosis emerged parallel under neath the edge of the transverse mesocolon The afferent loop was somewhat dilated and friable and contained thin biliars fluid The efferent loon was smaller but not collapsed A lateral anastomosis was done between these two loops as the gastro enterostomy admitted only the tip of a finger and the efferent loop was definitely angulated

The patient made a very uneventful recovery and at the pre ent time is entirely free from gastric symptoms and weighs 5 lbs more than her greate t weight during the past twenty eight years

In conclusion the author states that he reports this case to illustrate the menace of a gastro enteros tomy in improperly selected ca es

L RL H TANNENBAUM M D

Schroedl P A Case of Zuckergussdarm (U ber ein Fall n Z kergu sch m) Me clex m d li h s hr 9 6 lxxn 482

The vord Zuckergussdatm or su ar coated intestine has been coined by the author for a condition of the intestine analogous to Zuckergussle ber the chronic perhepatitis or so called Lick's hepatic cirrhosi in which the liver is covered vith a thick white brinous covering

The ca e reported was that of an 18 year old girl with a prominent tumor the siz of the palm of the hand in the lower part of the abdomen on the right side This tumor vas soft putty like and elastic in con istency and insensitive to pressure Per cussion produced a hollow note There were no visible intestinal contractions. On auscultation a loud humming or hi sing sound was heard. The roentgen examination showed after four hours only a small amount of the contrast material still re maining in the stomach All of the rest was found in a loop of the small intestine extending in a wide curve from the anterior superior spine of the thum on the right side to the umbilious. The loop had diameter of three fingerbreadths The contrast material could be forced by manipulation into the cæcum

At laparotomy the panetal peritoneum was un altered Some ascites was present. The tumor as found to be made up of the entire small intestine from the pli a duodenojejunah to the execum and was as thick as a man s arm. It was covered with a thick white layer. The thickness increased from

nbove d vinwar! Its surface was smoth and there vere no all a sonst to the surroun ling abil m inal organs. The colon a free only the append that peare to be chronically influenced.

In an attempt to shell the time time out if you ere ening it as I und that the in lay hall in it logs a ref I led upon themed easin the logistic in logs a ref I led upon themed easin the logistic in direction. When the attempt as shelling out we continued by and in the level in old the Lao lenum it was seen that the concern could not be lose end it was seen that the concern could not be lose end for example agit to the longitud hand direct in a white upon the land time layers from a long life [1].

peration vas complet five remo alof the poet v. C. n. alescence was un ventful. The post perative treatment con iste in histherm an lime ur s. to stimulate peristalisis. I rice amounts of foot to the

a high r s lue were given. The patient 1 s gaine 1. S lbs and thou free from symptoms

With regard to the ctill has of the continuither that that the chronic appendiction of a previous segment may have be note ponible

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Cange ne of the Small B el by Invagination Versus Resection S & Cyr c & O 1 1277

It is generally agree that to a creef gangerouse interstine either the gracers us bed must be reseted or an artificial and must be formed. In favoral leases recis in six the procedures of his collection of the others the craft limit of an artiful aussiness recessing to six fell and it a later list the continuity of the intest. It is a may be rees to like I when the gracers estimate and annular intic

there is minime reased treated by my great in the gange me whe with that by rest trible treats a of an a th sal and sal array and the treats a of an a th sal and sal array and the the success of a restion my le foul titul and the fination of an artificial and the client my factor of the sal of th

Resections fagingeria lovel are dugrebeng feel file of by pent inits. The irmation of an artifical annual after epeculia, length in the length of the multiple of the length of the multiple of the length of the le

ligh as 70 to 80 p. rec. t
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trained atel when the loop of g. g. en. t. t. is
large than 10 m. and hen th. b. el. this
and relematous imm. t. rely above the gangrae
ery mule ontracted telo. it. The tr ha quela.

Four equilitant se i cula mattress ill sut rane pact around the trumfe en it th box el parallel to it long a is the ecile to ing 1 2 cm b 1 the grangenous ring and the same 1 tan eat v. it like gaugenous bowel 3 then stry gently invasimated and the sut ress are ted 11c sutur he 2 r. r. infr 1 ly 2 circuls sero mu ult r. h. sutch pix da 1 tle higher up so as to lury the mattre utur 3. It is all ay s best to make the na granting 1 nm a. It is all ay s best

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ruti a man not the a leman is this kneed por
tuo the e the gangran invagant in man
som times to male up art and ir r rls suture it to
list lite uthorn it in technique in on case
There is not if it tash as he to the fat that

the of crat n 1 as performed tal te

The general partial weep I a will shough off in to the ell 2 and if the image put in male 1 in a 2 if the instanct current I the interestinal flow will be resetable hed. When the e is a que tion a 1 the with it of the got the involved port in a boult be cruched 1 with a mage the tearly 1 ath lengt thus let moned point in the will be got the involved port in the mone of the tearly 1 ath lengt thus let moned point ell will be greatly a for the will be got the moned to the state of the great in the mone that the there is the great in the mone that the the state of the free of the money in the case will not be seen to the free of the money in the case will not be seen to the free the in great in the money in the case will not be seen to the free the in great in the case will not be seen to the free the in great in the case will not be seen to the free the many the free that the free the free the free that the free th

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CYRIL J (L P MD

Maclein N J Duoden 1 D c tic litis 4

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The oper it et chique depents upon the loction if the le Di criticuli may be clisistfed according to thi text in as (3) the so on the anterir pertinal ed if ce of the duole um (3) those embel 11 in the pri ceess in all fly those behind the jinc cas or in this reperitioned pare Remo at f incriticul if the 13th 15pc is very

samil it don by see, the opening in the two-feather than big clot in a trin ver enamet a livertic i in b in 1 the priories in the trope in it clearly it us exqueries mobilization of the lod um and i the hid i they acreas for the remaining the hid in the remaining the control for an angle i the part is vere and left if he part is vere and left i the part is vere and left i the distribution.

Suthe land (G D od 1 al Ulcer A Comparison of the Roentse of sie i and Hist logical Finding & f / f)

A comparat a study vas made of excised du denal where and the deform te they had a used in

the roentgenological picture. The di parity between the gross and the roentgenological data was striking. There seemed to be no relationship between the extent and size of the ulcer and the roentgenological deformaties it produce! Onite frequently minute ulcers can ed exten ive deformaties, while large ulcers.

caused luttle or no deformity of the duodenal bulb Sutherlan locanducts that there are two factors in the pro luction of the deformity in duo lenal ulcer a mechanical factor and a neuromuscular factor. The mechanical factor is overdistention of a thin maked tube in which there are localized inflammation that the state of the control of the maked the latest and the state of the neuromuscular mechanism. The defrangement of the neuromuscular formity is brought about by ulceration of the mucous and muscular layers and it attended with irritation or passes. (A size II ils seconds MD

Schultze W. H. The Heocarcal Valve Especially the Anatomical Bases of its Insufficiency (Uter d. Valuda lee acc l. 11 be der di at m. h. C. ll.g.n.her l. fl. n.) Z. l. ll.l.f. ll. ll. ll. p. n. l. 1. 196 xx. 6

The anatomy of the decorcal valve is described in detail. At the boundary between the colon and the eacum there is a half moon shaped fold which it usilly referred to as the frequium of the it occast valve but i better called the plica semitunarias or tentonum creale. This it of great importance to the iboecteal valve and forms the greater part of its upper lip. The val e handers the return of the box of contents from the execum into the islaim. If the box of contents from the execum into the islaim. If it is not the properties of the properties of the box of contents from the execum into the islaim. If I is to do use require tension of the tentonum and the fitting of the upper to the lower lip. The all cit usuall impossible exton for a

The import c of tension of the tentorium in the closure of the value is evident from the fact that when the tent rum clonned cl eto the or fice the value b om s in uff ci in t. To a certain extent the cacum open it ell up in and o that the contents of the small bo el ur r ei ed b it fir t and are never mit the directly it the col not re-

never mitt d directly it the col n pr per In stude in crisse to thirt fall leocacal valves are i unit be ufficient in the remaining of hich; a path log I ha g Th ro te mmon ching is semile atomy f the lower hip Nearly as common in old person i r laxati nofth tent rum I quit imilar effect may be ir luced when the n cessare lil tation of the cacum i prevented by changes the t ue external t the be sel uch is alhes n nd n w gro th l n le uch con litions the ten ion f th t t trum i p ated th I ps of the viel nt m tg the anithe val is rende el in uti i it Irlipe Lim occur when unit suh c cumt nes the mu a of the small bo lip lipsed t a light ligree the tion may be cu I by an I erou prices in the to ues n at the bow I espe alls tubercula a leers Topi ilani thrulers ma tatamiri

author suggest that ob tipation which is usually regarded as a result of ileocacial insufficiency may be instead a cause

The article is illustrated by ten figures Colley (Z)

Fifield L R Diverticulitis L c l 1927 ccu 277

Diverti ula may be congenital or acquired Con genital diverticula are rare. Acquired diverticula are more common They may be found in any portion of the large bowel but occur most frequently in the pelvic colon. They are essentially hermal protrusion of the mucosa and submucosa through out the muscular coat v here the latter is perforated by vessels In 10 167 consecutive postmortem exam inations 218 of this type i ere found. The opening into the bowel is smaller than the lumen of the discreticula so that fre I matter becomes inspissated and further pathological change result. The complications include diverticulitis pendiverticuliti gangrene localized absces peritonitis adhesions to surrounding vis era and the formation of fistulæ into contiguous vi cera

The Mayo Chinic has reported seven cases of car cinoma superimpose I on chronic diverticuliti

Dive ti ulitis has been a cribed to a number of causes but to factors e ential for its development are weakness of the bowel vall and increased intra colonic pressure

The clim at features of acute discreticular have been compared to the coff acut appendicular.

The diagnost is based on the signs of acute in finammation in the left if ac fossa and it confirmed by X as examinate in after a barum e ema. The confittion must be differentiated from carcinoma of the big of the perfals it whererulars is greenological.

conditions and slyphilis. The treatment is surgial. In acute diverticulturs. The treatment is surgial. In acute diverticulturs in hasted. In absect, bour die dramed. In intestinal obstruction col. form, with later end to end anastomous after col. from, with later end to end anastomous after the collection of the coll

The programs is process in cases of acute of struction I Lin and Bi Kon M D

cised and the bla lder renaired

Halpert B and S mpson H L A Roentgen Anatomical Study of the Colon on 150 Pa tients with Pulmona y Tuberculosis 1m J R 1g 1 19

The data reporte I refer e pe salk to the steletal p 5t I n of the excum the length a d shape of the a cen ling col n the hape and skeletal position of the hepate feature trans erse colon plent flerure 1 containing colon and sign and and the skeletal containing colon and sign and and the skeletal bet in lings in secents it a rules and stormach liber in lings in secents it a rules and fine liferences noted in the tas es are prounted ut. The trans noted in the tas es sare prounted ut. The trans

verse colon was located above the level of the pomontorium n 45 per cent of the males and in only 12 per cent of the females. The greater curvature of the stomach was foun lusually to rea hone verte

b a lower in females than in males

Perfect fus on non fusion and imperfect or erregular fusion of the layers of the greater om ntum may be judged in the livin from the relative position of the transverse colon to the stomach as seen during foentgenoscopic examination and found by palpation and on roentgenograms A perfect fusion was infer ed in 44 per cent, non fu ion, that is absence of the so called gastrocolic ligament in about 33 per cent imperfect fusion in about 15 per cent and an irregular fusion in 6 per cent. In the rem ining a per cent of the cases the greater curva ture of the stomach vas seen below the transverse colon Adhesions between the a cending and the transverse colon were inferred in 56 per cent and adhesions between the transver e and descending colon in about 42 per cent of the 132 cases in t high the spienic flexure was properly outlined

ADOLDI HARTENG M D

Gordon W tson Sir C and D kes C Intra mu al Abscess of the C lon Simulating Car choma and Second y to Adenoma P c R y S c Il d Lod 9 7 x 55

The author reports a case of acute appendiciti in why h h found at operation in addition to an inflamed appendix a movable tumor of the transverse colon. He performed a literal anastomosis of the proximal and dis. I cm/s of the transverse colon and to a weeks later temo of the tumor.

The pathological report on the tumor as given by Dukes destrobed a remoth encroachen upon the tumor of the bowel with no ulceration of the mu oumerbrase. The base of the tumor supported a pedineculated polyp. The center of the russ continued pure and the polyp. The center of the russ continued pure and the continued pure and the pedineculated polyp. The center of the russ continued pure to the polyp. The above sea it yet was attributed to chronic inflammation about the neck of the polyp. The aboves in the body of the tumor was cause! by 1 feer in form the bowed. If operation had not reversible the presence on the polyp. The aboves were the polyp that the polyper the polyper than the polyper tha

Rowl nds R P Carcinoma of the Colon B /

M J 9 05
The results of primary operation for care noma of the colon are good out asting! yo ably with those of primary operation for cancer of the stomach presents in the condition generally kills by cause in presented by e. ly r. moval of the growth or and it such obstruct an appreciated by e. ly r. moval of the growth of the chance of cure is f o able. The lie seas usu lly originates us an ulcer or papilloma. It specasis lonky ly originates us an ulcer or papilloma. It specasis lonky im the nail of the bowel and takes a ling time to infect the lymph tc gl i do or to i vade the liver through the p.f. I want.

The symptoms and signs are misidous in them, et and generally develop at about m fille life. They consist of the peptis of the intestinal top characterized by alternating diarrhes and on the state of the period of the state of

The conditions that must be differentiated from actions of the colon are alterative colut, disenter) sprue dive ticult so of the privic colon papil loma and adenoma of the colon appendicate with choice suppuration tuberculosis of the cacum impaction I faces with artistion of airbear in old pe sons and abdom not tumor. The d gnosis I not complete until it has been assectationed whether

the growth is removable

In the treatment the ideal; early removal of the tumor Removal of the growth and end to end union is best but in a case I tumor of the cacum ascending colo and henatic flexure for which the lower 6 in of the ileum the cacum and the right colon mu t be removed to effect a cure at a better to make an end to side union between the ileum and transverse colon. In order to drain the colon freely and prevent gaseous d stent on and undue to soon upon the stitches tis sometimes necessary to re ort to accestomy and t presarect bube into the colon through the anastomosis Operat a may be s comful in removing or short ci custing the growth. In most cases of acute obstruction the cause and ite are not clear therefo e an attempt to perfo m a blind acostomy may be di astrous. The col may be obstructed by b nds v lvul v o foreign bodies

The I ver should be examined for secondary growths and the site of cause of the obstruct of cove ed. If the cause is a growth the remo ably of the tumor must be accreta ned. If the e are no secondary growths and the prim ry carrimons a removable of ludis exocutiony is indicated but I the e as no hope of re-ection eather as book company and the prim re-ection eather as book company from near mean of draining the bo-elis int letable on account I the frequent and urnitating fluid action.

full actio s

Colostomy is bette tha excostomy when the
growth is irremovable and ship telecuting is im
practicable and when the obstruction is low down in

the colon

Sho t circuiti g s successful when the gro th is
urem vible. It is valuable less is some case in
which the obstruction is not too severe and the pa

tent is a farly g d condition.

I rim ry r ection with re to at on f the natural
chinn is very danger us treatment f acute and
complete ob tuction f the closs the mortality
bels gove copercent. The danger kes in the union

of soft a flamed and damaged to sues which fre a ently in the pa t has led to leakage at the lire of uture When free frains et e tabl si e i resection and even re unt n mis not le to dangerous In many acute as well as che me ca es the method of laul (Mikuli z) is sale. The gro this removed and the ends if the col nat we and below are drai et with I rule tubes. The artificial a as thu made m sel e ; ntineou li or may be el) el later la a remparate els safe min y peration

The chief of action to the meth I which is rately untable except fr mobil reluc or transverse c long is that the lymt hati glan I cannot be wilely rem vel Ho e er ver g ol permanent re ults

lave been il taine l'a it

Inc. sin which the ero the in the pels col n prim ty re e tim mas simetime Lecarrie! ut i ith safety ge i le i the ut per bo el is well fraine ! bi a re tal tule pas I up the ugh the ann t mo is In the after tr terent the patient 1 given from

t t z f tur l juil paraffin m rning an l e ering and a ful det gene alls within three la s afte the perat with the re ult that the ! i ls u u l' a t no jally after thre r four fays mein the atiat lels el ith ut h rm O a talle at t no e ar t run al ve oil nt the re tum th shiseft ath ter to trong jurgati e r ricar enema hulib gan

KIN MD

(olp R (hill in A ute Appendicitis 1 5 g α

With the lathest in a ute append its has 1 1 H I ered lour kn leige f the t I th the his been greatly th i ife ean's gniti an e of hills r n thi It I tll baute

t tene t f uth tie 11 th re ar! t th a 1 mg rt f bill in the sait tage it if hit be ntabter In the all plu Highlahitri I hillew gi en B 15 D it the entruet lith lpe trti nli lltut two the stellt ak in pirtel ritenid ite et Info u kn 1 f. f hills in its the ath meantial tuli of the till the tested at the Mt 1 1 It a tits in the res was 11 12 c t o 5 per ent n t il i ti jer ent in g narenou te t litte f i tute appen iti i ven i th L listet (b 1) relin 6 5 per nt ft \ th r i rear e of the 10 41 t t ti itt i th tintle Pt I tl a e s fat the t ill linnir bllogthethirt it v τ 4 tol with the t fre lpe it cit t tr th 1 1

11

1 5

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tilin tijer ert

In ca es of gangrere of the appendix the mortality increa ed from 1 6 to oper cent when chill occurred I sloublebits occurred in 6 per cent of the fatal

cases The mortality of ca es with a single ante operati e chill was no higher than that of all cases with mt chille

From he state ties the author concludes that in ca es i ith multiple chill a routipe ligation or re ec tion of the ileocoli vem should be done preferably before the at pendectoms

Postoperative chill are due invariably to suppura LARL II TANKE BATH II D tive pylophlebitis

Stetten Dell Resection of Sigmoid and Bladder f r Carcinoma with a Five Year Cure 1nn 5 re na le x

In urging ralical surgery for borderline operative cases the rath r reports the care of a woman 6 year of age why was operated up in for an a leno carrin ma of the sigmoi f with exten ive invol eme it of the s sterior wall of the unnary that ler Re ec tions f the lla ider and agm a l colon with end to en I inte tinal anastumosis were done

During a stormy convalescence both a urinary and a freal fistula leveloped with inflammatory necre is of the pubic tones at a second operation the h tula were dissected out an I clo e I an I the pul ic bones curette! A permanent cath ter s as left in the tla ! ler for one month The patient stea lils improved and now eighs 17 lbs mor than before the operation five years ago

KARL II TA SESBUCH M D

Lockhart Mummers 3 P Innocent Tumors of the Rectum and Col n 1 c Roy 5 Lod or 2 0

(or er tal innicent tumors if the rectum in h col n include the h pertrophic l papilla man of various type and the lermoid Acquired innocent tumors include warts thril nol t n lenomata a lenomyomata hor lomata an l car can als

The a lenomata have a tendency to un ler pearly mali nant change I ollo ing the regroval which i in cult the ca e should be kept un fer of erra tion for r currence or secon lary growth. The ec curren e f multifl al nomata seems to be a fanul al li-ca e The are u ually precancerous an I can be treated urgi ally only by cole tom

rul le mi mata re a sociate i with the presence fach clite a tof the ovars and arriers to an e fr m n! metrial e ll ese pin, into the r ni neal ca its by may f the fall pin tubes These turn s ma reach an normous az times the can be made to r tr ress by in fucti ? f the arti cial mr mu This may be din in t ad I surgical remo at of the tumor if the latten uli be a femilal operation

() el mata are rare tum is which ! im bet een the r tum a 1 the coce a ni arise fr m tle re min fthen txhel \ r x 3 alcfort mi may recent eac t but gr sven al ly



Chifoliau A Se ous Cost in the Suspensory Ligament of tle Li er (Ky te ér d le l ame t s p du f 1) B ll t & S s t de cl q 6 l t 97

The number reports a case of cysite tumor of the match supecion from which as it wight to be added to stop of the match the color of the match the color of the match the color of the match color of the match the size of an osinch egy was found between the leaves of the sup pinson it ament of the liver This with the match the color of the color of the match the color of the color

Gral am E A The Pre ent Status of Cholecy stog r phy and Remark on the Mechanism of Emptying of the Gall Bladder S g G π ε ε Ol 1 9 7 vl. 153

Cholecy tography provides a means of inveitigat ing the only functions of the gall bladder hi h are known namely its rights to oncentrate its con tents as revealed by an increasing density of the an lats ability to store bile as hown by sha lo changes in the size of the sh dow \ it is a func tional test it al o aff r is evidence of even early and comparati els mill inflammators listurbances. It ha been of value in the hagno 1 of chole vstiti an i has been the mean of e o nizing many more ne f cal ub than has be n possible by the or linar \ 35 exam nation It vill reveal peri holecy tit's n't peri hole yet c adhesions show the relation to the gall bladder of shadows een in an ordin vilm nl lem astrate various anomalie and apportunitie such as diverticula double gall bladder et

Of 1 246 ases e am nel by cholec tog aphy by th and his is o sate the gall blad ler was emove l an l subjected to microscop c examination 1 14 In 43() 8 per e t) f the e 14 ca es the Year dagn si a confirme! It i realized that the pe c nt e of diasno tic eft tenes for the meth I may not be st thy accurate based as it is the n es r bich th le steet my na per f rm d s n e t is p s ble that in some of the cases rena i la normal ni the efore not subjected to pe ation some hic e f the gall bladder may have bee prest Heer in the f a e in which at lom nal pe at on f othe ondition ha e per m tte l (ham t ev mine gall bladde d agrosed nt all hie t gr ph his fin lings have led him to belt e th t aport x m t h the same per ent ge frr te ill h ld fo the normal a fo the rathol 1 1 a e

The ding fother the less tograph as repeted nth ler trear grant nit ble Only the entity trepeented when very criffed by

Of 440 ; telin the hterature and exam 11 to the author in his health bladder diagnosed a p thi in 11 to choice to graphy e exam need at p rat in the a stall to be interestinable ten like et ethe lags smale by hole viog raphy va orretting 98 per cent lits ve sur

pristing to Graham that this high firmer only 2 per cent hort of perfection should have been reached in this early period of development of the method and by many different observers. It is probable that as experience with the procedure grows it will increase still further. In fact several of the surgeons cited in the table are of the opinion that as solid surfaces of the period of the period of the surgeons of the new period of the period of the period of the considerable doubt as to the corre time so of this opinion.

The criterio of interpretation of a normal and an ahonomal gall bladder re potentiely have been given so frequently in other publications that they are not mentioned here except for the statement that failure to obtain any shadow after the use of the intravenous method; the most certain indication of dicase of the gill bladder. The interpretation is most difficult in the case as mak the three seems to be varitions from the normal in faintness of the shado and delay of its disappearance. It is in this type of case that Graham has had hi only errors of diagnoss.

Grahum prefers the intrivenou method and all herrs rather (b) ely to the technique which le had described from time to time in various gubictions. It ill be seen from the table that others orders who have u ed the intrivenous method have in remarkable that others order to the had been seen to be seen to be the seen to be a seen of the consistency of the

The objet in to the intravenou method is the fear of a general toxic reaction or a thrombophlebitis at the ite of the injection

The fear of reactions invites a dicuss on of the toxic effects if tho e sub tances which are now known to be apable of making the gall bladder viable. An ideal substance if reholes stography ould be one vithout toxic effects. Such a substance has it theraft und Offort threes with tances with which the author has e-perimented twelve render the gall bladder visible I ut all of the e have

render the gall bladder visible I ut all of the chave is me tour propert. Lp to the pe ent tume the one is he here before the period to the pe



strong ey lence of intrinsic contractions of the wall of the gall bladder Additional evilence obtained by liflerent metho is in favor of the occurrence of contractions has been presented in a recent article by Higgins and Mann and in two reports by Mc

Master an I Ilman

In the author > opinion the important question is not whether contractions occur but whether they are able to empty the gall bladder I rom other experiments carrie I on by his associates and de scribe I in this article it s ems to him evident that intrinsi contractions of the wall of the gall blad ler aside from the factor of elastic recoil are not suff cient to empty the organ He therefore concludes that the gall bladder is emptied of it contents through the cystic duct by the washing out of its contents by bile from the liver by the elasticity or contractile mechanism of its walls and by variations of intra abdominal pressure. In the light of the ne evidence he believes to have not a signed sufficient importance to the factor of intrinsic contractions of the muscle and that this factor should be added to the this scal forces mentioned as re ponsible for the emptying f the organ. He is unvilling to ascribe an excl. sive rôle to muscular contractions THIL C POR TSHER M D

Moore S Further Observation on Cl olecyston raphs MdJ - k 9 7

The normal visualized gall blad let may be found I scated any here let seen a point opposite the ninth nb p terrorly n i a noint below the le el of the pelvic brim an i between the al forminal parietes in I the r dl ne During the period of examination it may hift it position materially Visualizati n lepend upon the angle f the rays therefore the cholecust L am hows g eater variations in form size an I position than a c found on the operating t tle or in the autopsy room. No pathological signif ican e 1 to be a ribe t to these variation

Assuming that liver function is relatively normal and the lu ts are patent non visualization of the gall bla i ler by clolecystography 1 conclusive eva in e that the concentrating function of the gall bliller : b ent r dec ease I so that the quantity I flu I remo el I om the bile is not sufficient to ren le the org n vi lle faint visualization of the gall blaller with prompt d sappearance of the shal | arallel to that in norm I ubjects indicates imp irment of oncentrating function. This is in is at d I when the gall bla i ler is not visualized unt l later than normal

Grah m an I h s orkers have sho n concluis I that h le tit is usu fly the result of hepa tti ni au s th on entrating functi n of the gall 11 Her t hisappear ery early. The finding

frep at I his t gr phy and of examin tion i e i igall blatt ro n it ate that when inflamma tion has nelvl ped the function of the gall Il fle will n be re tored and that a gall I la ider whi h ha I si its fun tion s ju t as fruitful a sou e of fu the trouble as a fibrous appendix or a de 1

talized tooth since it acts as a focus of infection and WILLIAM E SHACKLETON M D re infection

Chiray M and Pavel I A Pathological Clinical and Therapeutic Study of the Strawberry Gall Bladder (La vés cul frai e étude pathogén que cl n que et thérapeut qu) is s d'anal pail TO 6 1 760

The strawberry gall bladder shows scrittered over its muco a numerous projecting yellows h white masses which u ually occupy the summits of

the will and ruga.

The lesion has been ob ersed for some time but has not always received the attention it merits Ref erence to the presence of deposits of cholesteria in the mucosa of the gall bladder was made by Aschoff Roussy Laroche and Flandin and colored illus trations of the lesion are to be found in certain textbooks but although the condition 1 as estab fished as a morbid entity by MacCarts in 1010 it has attracted general interest only since a stati tical study of it as reported by MacCarty in 1010 and other in estigators advanced the theory that it is the initial lesion of gall stone formation. According to VIacCarts its frequency : 18 per cent

Micros oric examination shows beneath the epithelium masses of large cells (40 to 50 micra in diameter) this hasually occupy the free extremities of the ruge These cells contain a large amount of reticulate I protoplasm and a relatively small vesicular nucleus 'pecial strins show the retic ulated cytoplasm to be lensely infiltrated with broids. The e-masse of cell may occur with less frequency in the deeper layers of the mucosa Lipoidal depo its in the epithelium which is usually intact are inconstant

There are minor degree of this condition thich cannot be detected macroscopically. Beneath the enthelium are found a variable number of endo thelial cell charged with fat and di tributed along

the lymphati s

Certain stranberry gall bladders typical in their gross appearance shot a very different disposition microscopically in that the masses of lipoid instead of being lodged in cells are free in the interstitial ti sue. This type is quite rare

'll of the forms of stra berry gall bladder de scribed are associated with evidences of chronic inflammation

With regard to the origin of the pseudo xan thomatous cells the author reports that Amisch how has recently produced these cells experimentally by provoking a suppurative or n n suppurative inflammation of the gall bladder and feeding a diet rich in chole term. The inflammation causes the appearance of macrophages containing neutral fats which in the presence fan excess of cholesterin become transformed into the pseudo xanthomatous

Clinically the rôle of hypercholesterinemia re m ins to be determined but the importance of infection has been amply demon trated

Lecl c G and Lec ne P Traumatic Rupture
of the Biliary Ducts Localized Cholepetito
neum Intervention Recovers (Rupt ret m
tque d e 1 1 re ch lépétitos lo 1 sé
ter e 1 guêt) B li et ém So i de
h 1946 1 05]

This article reports the cue of a 1, sear old boy ho sustained a bull feature fractures of the humens and fenur and multiple lacerations in an industrial accolart. Several logs after the injuried in a following pain a sasonate! with committing began. The abomen was tender especially began. The abomen was tender especially coloristic than the pain and the properties of t

Laparot my performe I twenty fi e Isy after the injury disclo e I a cystic accumulation in the upper abdomen the fluid of Inch was ble colored Following evacuation of the cyst the cauti was drained and the ablomen closed (hemical e amination of the fluid pro edit to be ble. Un

eventful reco ery re ulted

In late recognized ell ency ted choleperatoneum exploration to leterm ne the e act locat on of the lesion i n t neces ary imple dr inage of the collection is sufficient to insure recers. Experimental studies ha e h n that I neitudir al I cerations of the gall bladder ext ahepatic bile tra ts tend to heal readily proyided there i no intracanalicular b truct n Su sers ha demonstrated the same tendency in man fran yer e rupture of the tracts hower r It lead to a bil are fetula hich man pre e fat l if o ly 1 ton and drains e of the accumul tion 1 done. In uch cales immediate rec n truction f the duct 1 indicated Thi be t acc mph hed by carefully suturing over a rubber tube in the duct If thi 1 not d ne a sub sequent at menti a will be ne es,a y and will be render d more dil cult by the formation of cica tricial adhe ions Lo M Zinn Pu

Lot in R The Rel tion of G II Stones to Cane r of the Est aheyric Bull IV Pas ages and a Contribution on the Vilgration of Gall St res and Blyd ops of the B Bry Pa sages (Ub r de B h n um Keh d ett hep tych a Gal in ge gih Bet z Lehre d (II r tug ud d m H d p d C II g i 4 h f M C g o c v

In oa; autop set performed in the period from tole to undoubte from 7 carcinoms of the blus 1 pas agis from 6 min to the set see a fabout 1 per cent). Amo the latter there are number of c m mats f the gall blaider and three of the st clut T hea rage the between the appearance of the 17st s mpt ms an ideath as about sen months. In three furths of the case there were no premon tors 'unploms su h as color or pain yet in half of these gall somes ere also found there.

The ratio of carcinoma of the gall bladder and cystic duct in males and femiles was 'I no ther parts of the bile passages there was no difference in the incidence of carcinoma in the two seves this beine in accord with kehrs findings. Squamous cell epitheloims vas present in four cases. The combination of pure cholesterin stones with caronim described by tschoff din not occur their remove a factoribed by tschoff din not occur their remove as fanding which indicates that gall stones are not of great importance in the development of cancer.

Caranoma without stone formation was found more frequently in males than in females whereas carcinoma with stone formation vas found more commonly in females than males. Circinoma and stone formation are independent of each other. Their frequent association is due to a common cause a change in the bile metabolic or infectious with consequent intitation of the muotous membrane.

The cases reviewed prove anew that faceted cholestern pument calcium stones practically never occur primarily in the bld dutts. These are characteri tic of the gall blidder whereas stones primary in the ducts have the character of the earthy or so called pument stones.

The cases conf rm A choff s conception of the gall bladder as a pressure equalizing and bile concentrating organ. Hydrops occurs only v hen its function

In conclusion the author gives some stati ties on the cases of gall stones. In about 7, per cent of these there had been no clinical difficulties. Yield at the of the stone shad occurred in 13, per cent of the female subjects and 12 per cent of the male subjects. In the nomen, the hit the incidence of gril stores was between the filtreth and strutch years of age and in the men between the sixtieth and eventieth years (authops, cases). Toolkry. (2)

Lymphat c Theory of Pancreatitis S g

G3 c 00 t 0 7 lt 5

In describing the mechanism of pancreatic infection by the lymphatic route Kaufmann quotes Deaver as saving The infection sp ead from an inflame I gall bladder to the cost c lymph node then b a periductal hymphangitis through the node along the common duct to those at the head and margin of the pancreas and thence to the regional lymphatic distribut on to the head of this organ In another art cle he says The lymphatics of the head of the pancreas which arise in the neighbor hood of the bile luct are int mately connected with the lymphatics of the lower end of the bile duct and these in turn are intimately associated with the h mphatic lucts of the gall bladder. In infection of the regional lymph nodes this can very easily cause a damming back of the lymph and cause aseptic inflammation of the interstitual pancreatic tissue with subsequent trganication and cicatrization

The fact that the stran berry will blodder a found no oplo one of evers the ce of our case of chrons colocostists gives n e to speculations and mentioned type of infection which fivors t. In the authors opinion the anatomical type of it el sions of greater importance than the invading organ in The instonion is an acute influmnation with diffuse leucosytic infiferation which acts to interfring in the lying haste draining and hence with the removal of the lipids haste draining and hence with the removal of the lipids hast draining and hence the lipids has the draining and hence the through the lipids has the latest the lipids and the latest through through the latest through the latest through the latest through through the latest through through the latest through the latest through through the latest through through the latest through t

The tranberry gall bliller gie tie to symp toms which usually lead to operation. While the authors beh we that the I sion may be cured by an propriate medical treatment in a con leril le per centage of cases the exact diagnost of the l ion which this treatment youll d man l is at present unattainable Coast believing the lesion to be a precursor of lithiasis advises cholecystectomy The authors do not accept the theory that chol lithias a is a u uni sequel Lac ne an i Moulonment t ad that cholecystectomy rarely effects the radical cure expected the attacks of fever pain and digestive d sturbane continuing after the operation. Their best results a re bitua I with ch lecisto tomy The a thors belie e this t the rational treatment s hen the gall blad for has con ersed its suppleness as it breaks the vicious circle which has been estab lishe 1

The vers in orable effect of cholecystostomy in I cates the reversibility of the mechanis i which produced the kisson. When the infect on has completely subsiled curettage seems a ligitimate procedure.

The article cont in several colored plates

ALBERT F DE G OUT M.D.

Ment er S II. The Pathogene is of Billary
Calcull 1 & S g 0 7 14

Mentzer liscus es the various theories of the origin of g il stone. He address evidence aga not the contention that infection is the cause of all gail stone. I use cholesterin stones and ch le terin rich stone are often found in normal ook. g thin stalled grill bladders. The presence of bile pagment in the stone is in leastive of inflammatory the gostones. The author therefore target to inflammator the stones. The author therefore target to inflammatic much that the priception is Cholest in his sooie. In oper ce t of hi c ses of g il stones the stone was of the cholesterin type of there ever go deposits of cholesterin in the vall of the g il bad fer

We tree cite the opinions of others concern githe rel tin between ch lesterin! I en pap llomata and the form tion of calculs and his on not demonstrating the similarity of the organic structure of

calcult to that of polypi of the gall bladder. He b lieses it probable that portions of the mucous membrane, laden with cholesterol furnish puch if it is easily lation.

In all of several thous nd gull stones which Vientzer eximmed a nucleur of om sort was found. He suggests that anneleum any be an chan terl necess ty but admits that the presenc of a fore gn body will not also e cau e the formation of a stone. The nucleus is usually a mass of hile pig ment (bule thrombic of Jan 1971)

a store 2 in merces as sensing a mass or one-poment (bile thrombin of Nau) in the conting of the conting of the cholesterol content of the blood in root cases of rull bludder due s. Vient zer found that it was higher on the average when stores vere present life cites the viell known relation of rallist ne di ease to prepanor, with its ten no y toward hypercholesteri arma; and its ten no toward hypercholesteri arma; and its di turban obe-it, as evide ee of the influence of a di turban of store of cholesterin metabolism on the form

Ments 15 own observations have led him to support the opinions of other that the gall bladder may the orbichel term

In the end the author appears to gnore has evil er conclus ones negard the organic structure of a gall ston an i suggests that obstruction to the passage of cholesterin thr ugh the gall bladder wall leads to the accumulation of this sub tance; the gall blad lie had be superstructure in a d.d. the bace of the c.ll los lad briance then lead to the precipitation of cholesterin in 1 blie. this

3 d n V G The Surgical Pathology of the Gall Bl dder 1 S g 9 7 l 39

The author studied the pathology of chrone cheese states in urgeal perimens by immed the examination of the great perimens all towards to a The condition because of the condition because of the condition because of the condition of the mucosa and submucros a largeries as leg er into the all of the vacus where the comes e table shed are und gl is crypts and learning to the compact table shed are und gl is crypts and learning the compact table shed are und gl is crypts and learning the condition of the condition

Intr mural di e t cula a e freq e tly p esent and h e a lifect relati nish p t inf ction stone forma

tion perf tion and peri bolecystiti
The muscle of the gall bladder plays an a tivep rt
in the n rmal function of the organ d undergoes
char testic honges when the utlet of the viscus

termittently or partially obstructed cones refiten a compl sto of cholecy it is and sually an in it ble result of lege timed infects n b t the y may all of rm in the early stages of inflammatio

Ch lecystiti is usu lly a primary infection. Chol cystectomy is a log cal proce! re b cause it memoves the f us from high the attendig and c mplicating le ions of ch 1 titls t le ther or gin

The author believes that splenectomy may control Gauchet's di case

The yphilite tumor of the spleen in the secondary stace of splith - the has a talky a manifestation of the general infection and not a sira of splente sphilite—shows a tenden 3 to recede under specific treatment Splenectomy comes up for can ideration increes of large release tumor in the tertiarty stage with the sandforme of Bantis of case

The milarial spleen should be extripated only when there are severe tumor symptoms with a movable place tor ion of the pedicle or rupture of

th spien

In tub reulo 1 of the pleen the only condition of surgical interest 1 the primitir, 1 olated so-called utgical tub reulo is in which splenectomy is Cillow d b good permanent re ulifs. In secondary tuberculo 1 of the splene splenectomy should be u durtaken only when the splene condition 1 re soonsable for the predomanting symptoms.

LOEHR (Z)

MISCELLANEOUS

Beje H L Transphrenic Infection Report of Ten Cases 1 t 3 f 9 7 x 24

The diaph agn pre ents a striking barrier to the spread of infection from the pleural cavity. Extens a through it in ease of empreand or lung aboves is remarkably infraquent. In a series of procases of acute and hrong empream treated on the surgical service of the hop prist of the University of Io a since across one of the present the present of the

In infections original ng below and in contact to whith the daphra m the pro essuay pass by value to woll et he fleur! Lawtly or lung parenchyma. In the authors series of twent four cases of subphenoi ab cess a tran phrene infection occurred positions on a night in a nother ras e the pleura positions of the properties of the properties of the properties of the properties of the pleura was already in a marked and sudden reaction to the olerar that pleu al infection as significant.

This is explainable on the basis of the himphatic of ania e of the disphragm. The disphragm is supplied with a rith network of lymph vessels. Bit he or the the axis and abdomnad surfacts of the muscle penetr test freely and train into sixtems of nodes which lie on the thoract side. Probably in most cases the extening of infection upward is purely brombatic act he outser.

In uncon pleated case of subphemic abscess will often be difficult interpret and it ea. The difficult in led to the realty increased when the condition is somplicated by an estension of the infection ab we the diphemic to the plearal pace or lun.

Of ten ca e the subphrenc infe tion developed as a compliat not an acute track of appendictis in three In a fourth an operation had been per formed for appendictis two years before and at

autops) an abscess was found extending from the diaphragm to the pelvis with a perforation into the execum. Four patients probably had acute perforations of peptic ulcers and one a perinephric infection. In the tenth call of the original condition was acute emplement.

Beye particularly stre ses the importance in the diagnosis of a complete history and rountgen ray study. In some cases lung mapping helps. Drainage of the empyema may be sufficient but in some cases drainage of the subphrenic abscess may be necessary in addition.

Ten cases are reported in detail with the operative and autop v findings. The author draws the folk w

ing conclusiors

The diaphragm is an efficient barrier to the extension of infection from the pleura to the peritoneum Recause of the lymphatic drainage the extension of infection from a subphrenic abscess to the pleura

or lung occurs commonly
A gro s break in the disphragm takes place in the
majority of cases with a direct connection between
an infraphrenic an 1 a subphrenic involvement

In some cases drainage of either the infraphrenic or the supraphrene infection will lead to the cure of both but in the majority of cases drainage of each area of involvement is neces are

JOHN J MALO EY M D

Ta e nier Late Results Following a Left Lumbar Contusion Subph enic Aberess Pylephichuits Death Nine Months After the Accident (A q dents ta dl co sé util à un e t on l mb re ga ch bs ph nq e piylohichte m th nufm ap s l c l t) L Ch q26 v.m

In an automobile acci lent a man 39 years of are suffered a contusion of the lift lumbar region ships toncus und in the brain and contusion of the thorax associated with small rule at the left base and decreased braith sound. The head injury as the only one that seemed to be of any importance but as the igns of concussion soon disapperred and there was no fracture of the skull the scalp wound as sutured and the patient sent home.

After three months he went to work but oon began to have fever and chils When the author to examined him a month later he found a sub pibra c abscess Drainage of the abscess was fol lowed by recovery but phlebits of the ri ht leg then developed and at the end of the sixth month there was an infact of the right lung. In the eighth month pilephlebits developed beginning in the views of the transverse mesocolon. The pylephlebits caused death nine months after the accident

The case I of interest from both the surgical and the neckeologis points of view. The sub-observation was probably due to partial rupture of the spieen. Late complications are well known in partial ruptures of the spieen and Lidney but gen erally occur earlier. During the last year the author has had two other cases of left lumbar coults on

There are three possible explanations of the etiology of pancreatitis. The first is the conversion of the common bile duct and the duct of Wirsung into one continuous channel permitting the entrance of infecte i or chemically altered bile into the nan creas this con ersion being caused by the impaction of a small stone or inspissated mucus in the ampulla of later or by spasm of the phincter of Odds closing up the common entrance of the to o ducts into the due lenum. The second is the possibility of the regurgitation of duodenal contents through the ampulla into the duct of Wirsung The third is the extension of an inflammatory I son from neighboring organs such as the gall bla ider an I bile ducts to the pan creas by way of the hymphatics

Graham and I eterman claimed to have produced a pancreatic lymphang tis They infected the liver lymphatics by injecting organi ms into the portal vein traced their route of infection from the lympha tics of the liver to the gall blad ler along the common duct and to the pancreas and then demonstrated polymorphonucle's leucocytes and bacteria in the interlobular connective tissue. In a repetition of the e experiments the author confirmed their find ings tut discovered in addition identical changes in the spleen kidne s heart muscle and lungs which indicated a lacteremia and accounted also for the

changes in the pancreas

The experimental work as lone on cats Infour cats the right lobe of the liver was inoculated by introducin 2 or 3 drops of a beef infus on broth culture of staphylococcus aureus under Glisson's capsule At necropsy ten days later numerous sec tions throughout the pancreas failed to show in flammatory changes of any kind The blood cul tures were positive. In thirteen eats infl mmatory conditions were produced in the gall bladder. At necropsy it was shown that cholycystitis vas pro duced in the thirteen animals used and in no case was there evidence of a pancreatitis of lymphatic origin

The theory of the lymphatic origin of pa creatit s is based on the a sumption that in infection of the regional lymph no les the infect on can easily cause a damming back of the lymph an I aseptic inflamma tion of the interstitual pancreatic tissue with sub sequent organization and cicatrization. However such a damming back of lymph would require not only failure of the valvular action of these trunks but also complete inhibition of their muscular actio conditions difficult to concerve

The author concludes that there is as yet no anatomical experimental or chinical proof warrant ing acceptanc of the theory of the lymphatic origin RAYMOND GREEN M D of pancreatitis

Herforth H Splenectomy in the Blood Diseases the So Call d Spl nomes lies and the In-fectious Splenic Tumo (De Spl extome bed d Blutk nkh t d soge ten Spl no soge ten Spl no n Mit m n) î kt mpin Bi b n nd d 96 1 44 Attention s called to the tendency toward con servatiom in surgery of the spl en Prolonged ob

servation has given Herfarth the opportunity to report the results of splenectomy in diseales of the

blood and infe tious processes

The literature to date on hamolytic acterus re ports 175 cases with six d aths Hamoly tic ictems may be absolutely and promptly releved by srle nectomy even though the operation does not meet the etiological indication. The author's cases show a result lasting for seven and four years respectively This operation is not advisable when the symptoms of the disease are mild

With regard to permicious anima the Breslau Chnic supports the views of Eppinger By splenec tomy the hyperfunctioning spleen is remo ed from the otherwise hypofunction ng hæmatopo etic sys tem Of twelve patients subjected to sple ectomy for permicious attenua one survived for x and a half years one for one and a half years and one f r one year without recurrence. Remis ions may fol low spl n ctomy wh noth r tr atment fail

In aplastic anymia splen ctomy is contra indicated

In essential thrombopenia splen ctomy is a di ated definitely. Up to the present time thirty three cases have been report d in the hterature There have been no f lures in the ch onic form of the condition The Breslau Cl me is able to repo t re sults lasting for per ods up to six and a half years The author is under the impre ion that the acute form is a disease picture of peculiar et ology. Of six patients operated upon up to the present time for the acute condition four died. According to the experience of some surgeons I gation of the splenic arteries promises good results

Splenectomy is indicated in very obstinate cases of pseud leukarnic anamia of infants. Impro e

ment has been noted in a few cases

Expere ce with splenectomy in leukemia has been very unfavorable Spienectomy is to be con sidered in this coud tion only hen the symptoms are produced by a cry large tumor Of fifty four patients whose ca s are reported in the literature only eight survived the operation for a year

In pol cythamus splenectomy is contra ind cated as the already existing hyperfunction of the blood destroys g forces is sincrea ed by removal of the

According to the views of the Breslin Chine thrombophi bitic tumor of the spleen should be operat d'upon when there are hemorrhages threat ening life. Of seventeen patients whose cases a c reported in the literature only nine survived the operat on In the p esence of thrombosis of th portal vein the gre test reserve is necessary

In Hanot's hypertrophic circhosis of the liver splenectomy is de trable procedure to prevent the

further sp ead of the cond t n

Up to the pre ent time the lit rature cont ins the report of five cases in which operation as performed for acute vellor atrophy of the lt er Four of the patients died Spienectomy may offer a hope of success if the atrophy has not p ogres d too f r

GYNECOLOGY

UTERUS

Burnam G.F. The Treatment of Uterine Fil rolds and Bleeding Cases with Part cular Reference to Radiation Methods Ne. Orlea is 31 & S. J. 101 1 x x, 477

In discussing ralisation treatment of uterine favoral Burnam decribes a blee hind care as one in which the abnormal uterine bleeding can not be ascribed to a kemostruble grot pathological from those the bedien probability of offers of the control of the care is a far the same time hyper care is at the same time hyper care is at the same time hyper care treatment should be general to combat the assets and plays the manifest cators as a local in the far in rada tion. Removal of four 1 infection.

may be of a 1 tan e
In the treatment of the e cases by radiation 500
me has are use it to stop menstruation tempo and
and a gram and a half nor a cure and a half hour
treatment to produce permanent immorrhora. The
mot vasificatory results blained with his do age

th the radium in the uterine courts though good rolls in the obtained by the use of ralium or travs from the outside. With the former method it is better to go e a full treatment at one of the

The majorit now favo r dum over urgery in the treatment of millibroot! Women come should sel lombe in the act of the treatment of the treatmen

po in let t patient to bee me j regnant and gi e tirth to a full term hild after the cue of a fibroud by t hu i but in gen ral it is necess ri to give a full ir thenen in rier t se ure a ompile result. The symptoms faith fall min pau e a e nealy all visiles in vounger women than in the ner themen jau e

Bif refr tments a tituted haga sis should be subtantiated by urett g and examination under n and thet. The uttake and the election f the petimen trul jets that the treatment sull mum in thould.

In preticult eer ac if bil hamorh ge ant toll it rathat n'approximeté so pe nt of millit it an isojer cent of the large ne li ji u'e t'i' i' n' f'et ment li n' minest n'i pe ent i traut n'er l'alton i

leinultigr the locall the legencrating not as no pitu line care best treated by street. It infect no present it for it can the different place in the case of the

1 superior to its external u e and is superior to treatment by \ rays or surgery

COOPRICH C SCHULFFLER MD

Clark J G and Ferguson L k Carcinoma of the Cervix Uterl as Treated in the G, necolog leal Department of the University Hospital (Ser s 11 1919 1923) Am J Obst 5-6, & 19 7

A study vas made of a group of 212 cases of car cinom of the cervit uten treated in the llospital of the Laiversit of lenn shania during the vers rope to 1923 of this number thirty cases were discarded because the record were incomplise or the patients could not be tracel. The remaining 184 cases steried as the basis for this report. Ninety, four case were treated five or more versa ago of these thirteen are living, the apparent cure-being 128 fer cent. Three years have passed since treatment in 161 cases with 27 apparent tures (16 nor cest).

The first symptom in three fourths of the cases wa hemorrhage in some form. Patients usually wait until bleeding and discharge become excessive or until great pain for es them to seek medical attention.

Of the patients who came her treatment. This six months after the appearance of the first symptom do per cent were moprated by Aptient treated during the first six months has one chance in seven of a five viar cure one furtact after the first six months has one chance in tenth six for a five year cure.

Idenocarcinomata constituted 13 5 per cent of the sene and epithelomata 86 5 per cent. The result of treatment were approximately the same in each type. The older the patient, the better the progn is for prolongation of life or a toal cure of the die as

In the group in which t leeding v as present treat ment ithis shown alone re ultid in a fixe year cure in two of even a e (85 per cent). Cautery and railium re ulted in a five year cure in five of six case 185p cent).

In the group in which a foul di charge vas present ca hum or the cautery plus ra hum gave no five var cures in eleven ca es. In one ca e in hi histerectims va fillowed by ra hum the patient was I vin eafter five years.

In the group in which pain was marked radium al negate a five year cure in two of thirty nine case (5) per cent) Lautery and radium resulted in a five year cure in one of two cases (20 per cert)

In the gr up characterized by urinary symptom there were a) five car cu es in rine cases

In all classes of cases treatment with radium alone re ulted in a five year cure in sixty-eight cases

which did not seem at all serious at first but later developed serious symptoms necessitating to emergency operation on about the tenth day. On was a case of intraperational humatoms around the lower pole of the Liney which had been crushful and the other a retroperational humatoms from a slight order to the kidney. Two y G M z w M D

Fo d F A Roentgen Ray T eatment of Abdomi

Ford reviews thirty five cases of abdominal and pelvice tuberculosis in which reentgen for treat ment was carried out. In it only six the les ion as perito its with or without demonstrable primary foci in the other the infection had involved various structures. In all but one case operation had be en performed presyously.

The dosage and method of application of the roentgen treatment are described. The effect on menstruction was observed. In two cases temporary di turbance of interruption vas followed by re toration. Repected cour es of tre timent usually

had a more prolound and p rmanent effect. Definite improvement was evid ni nó fo per cent but the result depended very largel on low intelligent; whe patient folloe dal la alvible methods of treatment and governe I their acts ittes and diet. The small sense reperted doe not show a higher percentage of care than is obtained by other methods of by the cause of its general tendency to prim te impro-ement roentgen are treatment may be considered or orth of a thorough trianging causes.

Muller G P a d Bol s R S Abdominal Manife tations of Hodgk n s D case Report of Case J tr W i g lt t 3

Mull r and Boles report thr e ca es illust ating the variability of symptoms a d the difficulties in the differential dagnos of the abdominal type of Hodgkin's disease. From a study of these a 1 there is under their observation, they draw the folling conclusions.

I In Hod kin's disease primary involves +of the abdominal viscera i exceedingly ra e

2 Little is to be gained from a con destit in the sympt main the adominal type of If d in a dave e since they are variable and may smult, those of a momber of reute a d chronic condit, as Symptoms referrible to the gistro inte tinal tri. Symptoms referrible to the gistro inte tinal tri. are u utilly present when the abdominal vector are affected. Pruntis d arther and the reurnesting of feer tend as suggested to junder a cutter and offer the and the reurnesting.

adenopthy m y b present

3. When H dglinn's licases a suspected b py
of an affected glind hould be performed. The
classical bit logic picture. I the dieses in cle
wantin when the I case is present. In a stop al
lorins confirmit tye idence a susually a pyl clot
frequent blood exam nations the blood picture is.

larth of racteristic

4. Hodgkins shees, of the abd minal type malt
be shifterentiated from tuberculous per toutise ty
ple id lymphosar om of the retroperational glade
and splen negal particularly that of leukamaa a
splenic anym i and occasionally splenometal of
the Gauch to be Bantis di case an iton platch

antimia

5. Radic I surgery may be considered when the
external exule coundicates that the process is choose
and in progressive when some function is not
feet I with by secure and hen splen meg I per

si ts after irradiat on

6 In the treatment of Hodgkins die as the best results in the may of temporar am I ratir a have been obtained by reentgenothe aps, both general and I cal. Such theraps is hid be direct of primarily to the abd to mail deposits.

7 The progno i f Hodgein disease is app rently hopeless JC M Mo i WD

by direct transfusion. The patient was discharged from the ho pital thirteen days after admi s on

The microscopic diagnosis was chorio adenoma of doubtful mahgnancy

On January 16 1925 forty six days after the expul ion of the hydatuliform mole she had a severe chill and her temperature ro e to 103 degrees b

The patient was Lept under observation in the hospital for a period of mine days. During this time the agnal hamorrhage continued. Some confidence and the agnal hamorrhage continued. Some material dustice state were expelled. In exploration, cureting, was performed. Close impection of the material dustice dissome by dating cysts but there were not numerous. The uterus was immediately removed through the abdome but the o area and tubes ere allowed to remain. The pathological diagrous a was mail stant chrono adenoma.

After lea ing the hospital the patient improve ! very rapidly and seemed to be quite well. On October 1 1025 she again came under ob ervation complaining of vague pan in the left ide of the pelvis and on Oct ber so vaginal examination re vealed a small cystic mas in the left pelvic ca its In or ler to determine the true nature of the left pelyic mass an exploratory posterior vaginal in cision was advi ed \ sem fluctuating globular mass comparable in size to a small orange was out lined The mass was not firmly adherent but it was not freely movable. In order to determine the nature of the tumor blunt pointed scissors were carred nto the mas an I the blade were separated Most ala ming hæmorrhage followed Efforts to cont of the bleeding from below failed utterly and accordin ly an abdominal incision was made. The bleeding su face was a lated and the hamorrhage itself was finally ontrolled by the introduction of a se ies of mass suture ligatures. The patient desp te every possible means of restoration succumbed to the tremendous blood loss one hour subsequentl

On mi ros opic examination the specimen was found to be recurrent chorio epithel oma

E. L. Corell M. D.

ADNEXAL AND PERIUTERINE CONDITIONS

Cal anico R Histolog cal Changes in Trans
planted Or ries in An m 1 (Le mo! f h
tol g he d trapa to a n gl m l)
R t t d l t p 10 6 1 55c

There has been a lively dispute as to whether the interotitial it see of the e gland is the source of their endocrine function. Some authors hold that this interstitial it sue is a part of their ticulo-endo theiral syst m.

The autho did autoplastic and homoplastic transplants on of owares in female dogs and go its some off the owares being implanted just beneath the pertioneum and one of them in the cornu of the uterus. Histol grad examinations were made at regular intervals from ten divis to a year after the operations. D tailed descriptions of the histological operations.

findings are given illustrated by photomicrographs. The graits undergo a process of involution the ovule degenerating first followed in sequence by the follicular cell—the germinal epithelium—the intersitial cells of the stroma and last the connective to the conne

The proces of degeneration: not a true selectors because the issue that is substituted for the original graft is rich in cells abundantly provid d with blood vessels and does not retract it is not a centineal tissue but rather a quiescent tissue because it is not called upon to function. It so ovarian it is sue that has become simplified it has not definitely lost its capacit for function but capable of resuming it.

The author therefore is inclined to agree with those authors who consider it a part of the reticulo endothelial it sue which has been differentiated by vital staining and which is a sort of neutral reserve tassee capable of developing in different ways as required. The sp cifc follicular tissue is destroyed but it is the interstitif it tissue that persist.

A chiract case is also described in that an own, from a healthy young woman of o was implanted in a woman of , suffering from primary and ab olute amenorities a blood test before the transplantation showed that both indiviously belonged to Group III. This identity of blood groups is very important in making transplantations. The operation was performed on July 6 and the patient mentionated on 'ugust 19. She left the hospital much improved in general condution with a gain of about 4, kilograms in neight.

Often in cases in which the specific menstrual function is not retored by an ovarian graft the general condition: improved because of the endocrine activity of the interstitial cells

AUDREY G MORGEN M D

Kelle R. Is There Any Reason for Changling Our Principles in the Operate of Treatment of Inflammatory Adnexal Tumors? (3 at all u de hing prince distance tipe atole des lume a B sammators) B B S d b 1 d g d P 1976 x 501

In the Strassburg Gynecological Clinic the treat ment of inflammatory conditions of the uterine ad next is essentially conservative medical measures being used until it is distinctly shown by per istence of the symptoms that other treatment is indicated On general principles operation is delayed as long as possible in order to allow the inflammatory manifestations to subside so that it will be easi t to d st ngui h between the limits of healths and d eased tissue. In spite of these precautions how ever the symptoms recur in the occasional case and on examination a new tumefaction is found at the site of operation usually in an ovary which was not removed In some of these cases a second laparot omy is nece sary The cases of recurrent symptoms may be d vided nto the following five classes

r Those in which immediately after operation considerable infiltration is found about the operative

(5 9 per cent) with an operative mortality of 1 4 per cent. Treatment with cautery amputation and radium re ulted in a five vear cure in 51 of fourteen cases (42 9 per cent) with an operative mortality of

to 6 per cent.

Radium gave temporary relief from humorrhage and discharge in 75 per cent of the cases treated. Pain may be relieved for a certain length of time but in a con-derable number of cases pain seems to be interested by adaption. The a range dur tion of relief of symptoms was ab ut one year.

FI hmann G F Carcinoma of the Cerrix Ute I a
Clinical and Pathological Study A J Obst
6 Gyn 9 x 74

F L CORN LL MD

Histopathologi al examinations of operative and biopsy sper mens were made in a serie of 110 cases of ca cinoma of the cervir uter. The specimens were divided into 110 main group adenomatous and solid the olid tumors being subdivided a cording to the predominating type of ancer cell into nic militine and unitive.

Menomators tumors represented \$4 per cent of the total and the solid of \$6 per cent. Of the solid the mid-up and \$6 per cent of the unrape of the mid-up and \$6 per cent of the unrape at mid-up and \$6 per cent. Of the solid the mid-up as in \$4.8 per cent of the mid-up but an only two cases of the unrape.

The q esen e of large numbers of cos nophiles in m croscopic sections of carcinoma of the cer \(\tau ma_t\) be a favorable prognostic sign when treatment \(\tilde{v}\) the radium is emplosed

No relat on bett cen the age of the pat ent and the t pe of tumor could be established

The d case was inmited to the cervix in \$81 per cent of asset. When the first examitation was made during the early stage most of the tumors were found to be of the ripe vanety. The class appearance of the control of

Heaty W. P. Radium Therapy in Carcinoma of th Cervix A 102 W. J. M. 1927 x vi. 16

In the eight years from January 1 1978 to De ember 1 19 586 esol prima y carcinoma of the cer ax we eadmitted to the Memorial Hospital of New York (14) for treatment of this number 101 a es (1 pe cent) ner el ssed as clis ally

and H weve the paramet all Jumph glands emo ed with the ut rus and adnexa showed metasts as in from 35 to 6 r per cent in these so-called early or I vorsable c set. Therefore not rus out fewer, three ca es a this gr up il subjected to his terrectomy only would p obably have shown a ecurrence within one or two 9 e r

Of the Bib cases falo [15] per cent) were group I as borderline or moderately advised neel cases with invasion of the vaginal fornices or parametral tissues. In the e cases operation would be to move do not the gross a least and cancer > 11 has a promptly recurred in or about the vaginal will and broad I [14] amonts.

Therefore at the Memor al Hosp tal 1s hum and the Yang were us dan dproue valuable find if ying and possibly in preventing the appearance of cancer in the pramet im a fleet the primary lesson was destryed. In the early cases the primary lesson was destryed. In the early cases the primary lesson was destryed in the early cases the primary lesson and be destroyed by electrocapulation cau in amputation of the crivit by sterectory or rail and approach of the control of t

Since Japunty 2, 1922, the cross-fire method a tradiation has been used in all cases of cancer of the cervit. The maximum primary do e of rai unit used in and a looming the le unit and the supple mented later with 10 × 1 mg. \tanscript x in supple mented later with 10 × 1 mg. \tanscript x in supple mented later with 10 × 1 mg. \tanscript x in supple mented later with 10 × 1 mg. \tanscript x in supple mented later with 10 × 1 mg. \tanscript x in supple mented later with 10 in 2 mg. \tanscript x in supple mented later with 10 in 2 mg. \tanscript x in supple mented later with 10 in 2 mg. \tanscript x in supple mented later with 10 in 2 mg. \tanscript x in \tanscrip

In 1922 thenly eight cases of recurrence were treated with radium and the Yangs of these 31 per cent are still alive. These pate is had bee operated on vanuecessfully no there beyasts and when they applied for treatment definite palpable mass es could be ulentited in the pelv s In some instances bopps to c nfirm the dugns s was possible. Suture, I Focasson VID

Bland P B Hydat d form Viole Lompi cated by Perforation of the Ute in Wall nd S c ndary Chorio Epithel oma of the Pel is 4 J Ob t tr Gy 10 7 My 180

The case reported 1 one of hydrid form mole with perforati n of the uterine 11 and se ondary

choroi epithehoma of the pet

The pai ent aged 30 wh last period was

August 28 1924 as first seen on December 1 For

necks prior to adm son she experienced con 7
able pain in the lover abd ment flowed by a blood)

discha ge which pe sisted

The uterine body uniformit ent rged evte ded to
the umbilities The blood count showed ms ked
animum which was improved by a blood transitu on

anamina which was insproved by a doctor as system thrifty six hours aft a dim s on the respected a fetus one placental two membrane and large expected and so the provides of membrane and large in the beeting able tell a siderable but the utern remembrane as siderable as siderable siderab

3 During the intermenstrual period the patient had greater strength and vitably I L Cornell MD

Werner P Roentgen Ray Treatment of Benight
Genecological Diseases 1m J Out Gynec

Very small dores of the Vrays do not reaken or destroy but actually stimulate the function of the outers. He exert after Vray treatment for give cological continuous the incidence of abortions from two to three times that in non-radiated mothers. The children often exhibit retradion in physical is velopment a high death rate in the earlier months of the and a high morbidity. This string is multiply with the results of animal experimentation must make us appreciassic of a po ship more delecterous effect that might manufest useful only in the next generation. There can be no doubt that we should exclude from radiation all women for whom the public of pregnancy easily.

All kind of hamorrhages in being affections have been treated by subjecting the splient of the Yars. In oper cent favorable effects followed a single radiation. If the hamorrhages could not be in fluenced radiation was repeated after a few days but results of repeated radiations were not sati

factors

Radiation of the spheen is particularly, valuable in the metorrhapian resulting from fibroms or incident to the chimacterium. In cases in which spheen radiation prior as failure the Yrays may be applied to the liver. Small \ Yray doses are administered to the hypophysis in cases of hypo- or dy slunction of the ovaries. \ \text{Kedd } z \text{ by } z \text{ centimeters about to not the ovaries. \ \text{Kedd } z \text{ by } z \text{ centimeters about the orbit and the anterior boundary of the certerial auditory meatures on either side of the head is given one third of the shair cryptoma for

Treatment in cases of dy smenorrhora and amenor thora gave some surprising results. I am severe enough to dety all types of treatment and requiring the admin stration of morphine disappeared completely after radiation. But the results were not always permanent.

Nicholson G W Endometrial Tumors of Lapa rotomy Scars J Obl & Gy ac Bet Emp g 6 sxxu 6 o

Cases of endometrial tumors arising in laparot omy scars are rare Twenty eight are summarized

from the literature. The tumors occurred in adult nomen between the ages of 2 and 50 years the average age being 36 They were usually associated with disturbances of menstruation The laparotomy had been performed as long as 25 years or as secently as 2 years previou ly The tumor was noticed after an interval of from a few veeks to 21 tears Menstruation was often marked ly increase in the size of the tumor an I pain an I in three cases s as accompanied by a bloods di charge from the surface of the tumor The tumors were restricte ! to the lower half of the abdominal wall Fifteen of the cares occurred following ventrofixation of the uterus and 6 cases followed operations on the tubes and ovaries without hysterectomy. One or two cases followed operation for rupture of the pregnant uterus appendicectomy hysterectomy and operations on the round ligaments Smooth muscle was present in five cases

The author considers the theory of the embryonic origin of these tumors untenable. The vitelline ducts and the urachus are of entodermal origin and could not develop mesodermal ussue. Such assue could develop from wolffian remnants only within or very close to the broad ligaments. You Rechlung hausens by pothesis of the origin of adenomyomata is based on inference unsupported by definite evidence. In regard to Sampson a theory of the endomethal origin of these roots the theauthor asks.

Is it not inconcervable especially when we bear in mind the fate of transplanted to tues in general that seminecrotic desquamated cells the physiologic fate of 1 hich is to die should not only settle and grow in a foreign situation but proliferate with a vigor vastly superior to that of the endometrium? The best theory hitherto devised to account for the e tumors is that they arise from a proliferation of the peritoneal epithelium in response to an s retation the nature of which is not known. This is indicated by the fact that they often permeate from s ithout the wall of the uterus gut and other structures and may be directly continuous with the peritoneal epithelium. These growths are clearly hyperplasias or accessory uter. The perfe tion of their histological structure and the performance of the phy siological functions of the endometrium for example decidua formation and menstruation indicate that they are accessory uteri. They are tumors in their often isolated and independent mode of gro th and the assumption of irregular shapes

Goodrich C Schauerter M D

field This infiltration cannot be regarded as a recurrence as it is nothing but a continuation of the inflammatory p ocess and shows that the operat on

was done too soon

2 Those in which the recurrence develops a fer m nths after the operation. In the un emo elonary or tube the morbil process continues and a new tumefaction develops. This type of recurrence also has become rare since operation has been de layed as long as possible.

3 These in which a new tumor levelops in an overy which appeared normal at the time of operation but at re-operation the timor is found to be due not to an overtain infection but to the adhe ion of intestinal loop and omentum around the fir top rative site.

4 Those in which cysti formations de clop in

the ovary whi h was n t removed

5 Those with peritoneal cyst formation at the

site of the adners which we e the sites of infirmma tion

The true recurrent adneral tymor usually cau es

symptoms resembling tho e p odu el by the first tumor. The econst unsudderp in and a perioneal reaction ai l'often develop during men truatin, cy t format on has a rather late devel poment slow growth and le symptom. In cases of dhe ion to the intestinea around a ret tuvely health wary, the tumor differ in columnat different examination. The author draw, the folly large con lumns.

True inflammators recurrences afte c aservati c operations for adneral turn rs are rare at the

Stras bu g Clini

These recurrences are prevented to a large extent then the operation in delived a long as possible. In certain rie ciles a cystic tumor develop at

the ste of the ovary high was not remove !

The e cystic formations my cause symptom

nece strating another operation

There seems to be ro nece s ty to changin th
mode of p edu e used at the Stras bu g Cha c

In the ase of young nomen the attempt shoul I be made to on erve the ute us and ovaries or at leat a part of an ovar, in order to prevent the artificial menopause S Li T REI I LM M D

MISCELLANEOUS

Whitehouse B A Contribution to the Pati logy and Causation of Dy me rrhota J Ob t & Gynac B t Emp 9 6 x 6 7

The sexual cycle in the human female can be considered as differed to two phases a positive and angestive. The positive phase is mit ted by owid ton and co est the period of devel pine to it the corpus luteum. The negatic phase is initiated by the death of the owim and in particul r by the degenerate in the de defile of the corpus at the author prefers to limit, the us of this time the sum and the us of the transfer of the corpus at the companies.

dysmenorrhea to a path log cal entity in which there is neviolation of the overdeveloped mensional mucosa a soc atel in the severe print and it reserve the term minorrhelga. (Unser) for the par in concommant of a variety of condits has associated with mensituat on and at present wrongly called the minorrhela. True dynamon rham as it it is the menorrhal in a san evaggranton of the por time term or high valuable of the menorrhal in a san evaggranton of the por time term or high valuably of the unforturate from the term or high valuably of the unforturate from the conclusion is lased on the high degree of d cut all evelopment evilent in the endometrial fragments in these cases. The author speaks of a chain and are alward on as a menticula abort in for rich che uses affred on the case of the conclusion of the case of the c

tion of the menstrual decidus.

The eventy of the pain is freeth dependent on or; oportional to the extent of demudata n of the menstrual e dometrum and to the si of the fragments expiled. Contrars to the prevalent on not the expal on of the Imagenesis ad cl is on the expal on the properties of the pain dependent in more than a se o days stone up in the maniform I good immaion of its expanse up in the maniform I good immaion of its end.

uterus or the ners us cont of on the md s d al. The aim of treatment should b to n trate an early negative phase by indicing deg nerati n of the corpus luteum. Operations on the ute us can be regarded only as palliative in the rect of pana a so inted with n neonceptional dysmenorities. Occops c. C. AUNCYTEIN UD.

Allen F Comp re E L Jr and Austin W C S rn Results Obtained with Parathyr d E tract in the Control of Idi pathic Men tr al Bleeding im J Obi "G c 9 7 1 56

The a thors present an 1 stal report on four ase n which they gare p rathyroiser 1 to all the officers of the state of the

Mil of the pair intside encouraged by the rule their it ion. These each ancel that the period were stottened and that the crual bid as was off firely let that it previous period. They ere fithe opin in that the intermentary it risal was characterized by a greater aim and of strength tallt and energy than they bad you so the properties.

The da er of producing hypercal amia; very smill e en very lige d es may be given ith afety

The auth is conclude that the calcium content of the blood following do es of parathyrod straftions in those the see reported by Kilin but that I The bleeding I me and I ting I me of the blood ere debt felv shortened

2 If number of days of menstr al bleeding as well s the amount of bl od l t was appreciably reduced

of the specialist. This occurrence is ver often de to the fact that the customary order of procedure has not proved sanisfactory that on some previous occa or the "idvise" or phrasuru ha instalent the nature of the past in a condition. There has been a failure of digna is and of prognosis. To prevent such failures clinical teaching mut intervent. Fivery effort must be male feo train capythle mid view.

Many medical students study only with the examinations in use and after they have been present at the manimal number of labors demanded they regrid the obtestional amphitheater and all that occurs the rein a summportant. The resson for this man, I e in the extension eness of the curriculum The only solution seems to be the requirement that the student the extension eness of the curriculum extension enesses to be the requirement that the student period of the three groups must manian high ideals but must also un lerstand the hunts of their own field and act accordingly.

Schleme conclutes in structer with the statement. When me some in much that the patients concerned in this dissipation of labor are our own me in an other structures of the structure of the str

thysician or the obstetrical pecialist

For (G)

Frankl O Delayed Hæmorrh ge Following D
H ery and Abo tion (U b t 'p tblut ge p t
p 1 met bo tumi 1 1 f G s k g s zm 87

In 15 cases of bleeding occurring eight days or o after delivery or robotion decidual cells without villa were found. In se enty three there ere-symptoms of inflammati in. The 135 cases were taken from 400 of late harmorthage in most of which chotionic villa were found in the uterine scrapine.

Of the entry three cases in which hysterectomy was due visit were identified in even In tensome other di ase caused the bleeding (carcinoma moma etc.) In six no such cause was found

Wit to c pic extunition re eals decidual areas often with district sets with or without chronous cell. Sometimes the compacts and the spongous an still be identified. The entire area is highline or mide up. I decidual cells interspersed with highline to the Challand find o cloud on the board in ome instances there are found on the board in ome instances there are found on the board in ome instances that of without extence of the minute of the control of the without extence of the minute of the control of the co

involuted than the c on the surface. The deficient involution is reparted by Frankl and Kernmauner as the cause of the late hemotriage.

Late bleiding seemed to occur most frequently when the abortion occurred in the second month of prean nc). Harmorrhage occurring later than t else cels after an abortion can scarcely be ascribed to the abortion.

The pontions reverts to a mucors of the potent rutual type while the compacts which has the power to only a les extent undergoes hadine degeneration and the late bleeding comes from the sinu like blood cessel. The frequency of delayed hemorrhy ce in older yomen and after many abortions suggests that the inflammation frequent such cases may have been the Gause of Mary 4 (6).

PHERPERIUM AND ITS COMPLICATIONS

Kuestner II Clanges in the Lochial Secretion Following Vaginal and Uterine Examinations (Venteur gen des Ioh Ieketes nah Unter suhing der Ket Innu ode Seled od r der Ceb etmuter au ZIII If Gb th

Gy ack one to 3

After mentioning the ty o possibilities of infection

by a agual examination (the transportation of in fectious material from the vaginal introducts into the upper portions of the vagina and of bacteria from the vagina and of bacteria from the germ is len vagina into the bacteria free cervical canal) the suthor cites Sellheim recommendation that an exploratoria procedure be called vaginal only when the borders between the bucteria free and bacteria laden areas of the birth canal are not passed belibeim was the first to call attention to the difference between examinations in which the examining finger was restricted in its activity to the vagina and those in which it passed the cervical inlet

is fate as 1921 the textbooks on mil 1 fery still recommended a minations which could be accomplished only by inserting the finger through the cervical infet. The danger less in the presence of small abrasions and the formation of small hermato mata at easily infected points where because of insue ne rosi conditions are very unfavorable for half og

The author reports his studies made on three groups of thirt women each. The lochial secretion was obtained from the posterior vaginal vault by means of a slender glass tube at intervals of twenty locar h urs mixed with an equal amount of defibin nated blood and cultured on spar plates. Virulence tests were made by the Ruge I hillips method.

The first group was made up of somen who were not examined in these the constant increase of streptococci described by Loe et a sa found. In the scond group were somen ho had been subjected to the contract of the streptococci described by Loe et a sa found. In these the second group were somen in the second group to the second group to the second day. Determine the second day between 200 at the 1st the day and 0 on the fourth day. The author of plain the decrease on the second day do destruct the second day to destruct the secon

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Williams J. W. Placenta Circi miallata im J.

In placents circumvallata the ring may risp, greatly in git os appearance. In some specimens a true, rainblug fibrous is pre ent and presents a true, trainblug fibrous is pre ent and presents a continue to the ring a wall about the entral chonosic area which may be cetal millimeters belot the surface of the ring. In other present the ring is thinner its inner me may arging to be undermined and on cross section appearing as a rougher haped process prosection appearing as a rougher haped process prosection appearing as a rougher haped process prosection appearing as a rougher haped process processed in the section of the ring as a the adjoining tissue.

The mi roscopi findings are usually suff nearly comprehen i to indicate that the ring has resulted from a folding or displication of the fetal membranes at the margin of the chronion in mbrane. Pertpheral to the ring the preture is radically different state there; only a ingle layer of membranes consisting of immon chorona leve and decidua cap ulars to the chronion of the ring of the rin

The shootmality must originate in the early stages of placentation that is during the very first weeks of pregnancy. It results from a primary limitation in the extent of the chorino frondosium. If further I v lopment of the pregn ney is to occur it is mecessary for the illi the periphery of the devel pun, place nta to proliferate obliquely out vard and in so doing to und run e the adjacent decidual.

The ariatin in ize and thickness of these pixenix are rell within the normal limits. The advirm it, exects no effect upon the development veight of the hill. The condition does not pre time e t val abnormalities of the third stage of layor.

L L COR Fit M 10

Wate 5 E G The Treatment of Hyperen is to a ld rum with Particul r Refer nee to the Use of Gluco e and Insulin Report of Eighteen Case 1 Thin Tym 97 21 9
Of ch ten cases of hyperemess gra idarum

thrice h d been treated pre tously by the admin tri a of a high ca bobydrane det saline h pod moth es a sufficient fluid intake intrasou injections of corjus luteum and a impromatic triment of mou kinds Intra-enous in sectin, of glucose a 1 nuli were gien with curative effect. The twas on recurrance but the responded promptly to further treatment all et the cases could be classified in the serious group of Titus the condition having caused establish emission dehydration bignin neighbus and early juundue alone or in vanous comb and as alone of its vanous comb and callous. In fourteen case one injection caused the cessation of the comiting within 1 early for hours. The alerage bo pital stats was the freed of the control of t

LABOR AND ITS COMPLICATIONS

Sellh im II Impro ing Ob tetrics by the Di ii n
of Labor (II h ti tu g d r (i rishif durch
i b t t slung) D t k m d li k k i 19rh ii

In ob lettical practice it is of the gr stest in portance but most of flicult to estimate correctly be forehand the possibility for spontaneous of livery in a given case, that is to determine whether ase cases spontaneous labor may be expected (Froup 1) at whether from the very beginning some form to prative at I will be necessary (Froup 3). Bet enter two externess are the cases of Licoup 3 in which there is doubt as to whether delivery will occur in this lost group that speed care an I wat obligates the indicated. The patients of all three groups will are best when there is a day to not of blook between the midwife the obstetrical physician and the speed aist in the obstetrical physician and the speed sits in the obstetrical physician.

This liviston of labor has a mate at Lax a functively independent of the personal element. In midwise has almost no operative method the grand practitioner has an eff tive instrumentar in and drugs, and the obsterioral special is in translation. In the control of the control

sells im recognises the fact that such a transference may be unpleasant for both the attenta, and the pot ert but be emphasizes that personal feel may should of the con-letted Often the past at berself bre is through the or let mentione for even we her labor will most certainly be eave be use not employ the mudwife but summons the physician or even goes to the hoop lad at once a it if the care ph blast an I deci lua is very difficult in places. The I lood vessels of the decidua encircle the trophoblast an I extend up un ler the capsular laver where they bee me smiller. The dilstation and the growth of the I lood vessels at the base of the ovum are due

to the stimulation of the latter

The lend has red-serhed in detail. The epithelium of the topolar deciding is much loser in 1 at the topolar the deciding is much loser in 1 at the topolar the red in the properties of the prop

The closure is not brought about by decidual cells. The closure is formed from a crumbling basic mass with infiltrating cells the cells trophoblastic cell and lectiful cells degenerate as do also the enthropytes and leucocytes. Sincy turn is found only where the onum comes in contact with the

maternal blood

The blood vessels aroun! the vitelline cavity are lesstile! in letail. The main mass of the arterial blood comes from the lessel laser.

According to its use and de elopment this embryo must be grouped in Gro ser's table (1924) under Croup C 1. I evaluatives such as the presence of a cephalic process mix be ascribed to in hiridual agapations.

This x ry letaile! lescription is a valuable ad li to n to our knowledge Meyer (C)

Octilingen on Comp rative Studies of the Blood of the Mothe and El lid (), he hade I ter such a desm it I had had hen Blutes) 4 h f (rail had 6 xx 115

The author reviews not only his of a findings with r gird to the characteristics of the blood of the in ther and the child but also those of other investigit is. The report is supplemented by an extensive

bit is graphy

Non-Octumen to the 1 the physicochem cal properties of the plant. The non-premant sound he p man is the non-premant sound he p man is man and the newborn infants shown to their reaction to betaine preceptation with ammonium sult hate precipitation with sound corre ponded to the college state of the stat

Hami a wa determ of by mixing 5 cers on h heep 11 in the indirect were an itest in, with often mm there less was marked in the l wild of the program is some moderate in that of the no programs man and about in the blood of the no programs.

of the infant. In the infant a blood however it was produced by heating to too degrees C A role 1 plant action laboration in the produced by heating to look of the laboration laboration laboration laboration laboration in the laboration physical importies of the blood (increased availability and ponens of reaction of the lipoids brought about by heating). The blood of the newborn child lacks the himolytic powers that are present in normal adult blood and are increased in pregnancy. It lacks also bacteria accitigating power.

Determinations of the congulability of the different bloods as affected by Dalona poison (a snake poison that hastens coagulation) showed differences in the sedimentation time of the red cells and the precipitation of the corresponding plasma. When calcium chloride was added to the blood (optimal concentration i to 1 s For tent) the coagulation oc curred in the blood of the newborn in fifteen min uses in normal adult blood in thirty minutes and in the blood of the pregnant woman in forts fine minutes. The author summarizes his results as fol

With relation to coagulation ha tening poisons there was found in the plasma of the pregnant woman the non-pregnant woman and the newborn infant a gradual gradation since in the maternal blood coagulation took place quickly and the coagulability of the blood of the newborn child was considerable less than that of the normal alless than the normal alless

On the administration of calcium under optimal conditions coagulation varied in the opposite direction the very rapid coagulation of the plasma of the newborn infant standing in sharp contrast to the consi lerably delayed coagulation of the plasma of the pregnant woman and the normal plasma again.

holding an interme liate position

The plasma of the pregnant woman showed the greatest intensity of coagulation and that of the

newborn infant the least

Tests of the resistance of the red cells showed a considerable decrea e in the resistance in the blood of the pregnant woman and a very strong resistance in the blood of the newborn infant

The plasma of the newborn infant is a coll id precipitant while the plasma of the pregnant woman

lacks this property

An attempt was ma le to precipitate collared by the plasma of the newborn infant. In the pregnant woman the surface tension of the plasma is less than that of the plasma of the newborn infant. With regard to cosmotic pressure conduction and

sucostly of the different bloods only the hierature
that The Indines as to the osmotic pressure
are not in agreement. The work of the various in
vestigators is cited especially that of the various in

Studies with the refractometer and determinations of the total mitrogen and water content is owed that during pregnance the libinth and eclampsia ar in the newborn infant the protein content of the blood is lower than in normal adult blood. Maternal blood is richer in water than normal adult blood serum is richer in water than normal adult blood.

tion of the bacteria in the upper reaches of the vagina where the defensive secretions are respecially copious. In the third group were the case in which the examining finger had passed the cervical inlet and invaded the uterine cavity. In these cases the percentages of streptocore was 50 on the first day more than 70 on the stood day and almost 50 on the third day. These high perentages were not due en thirdy to the examination. To other factors which the contraction of the contract

Other investigations have shown that avirulent streptococci may become highly virulent on necrotic

From these findings the author has come to the conclusion that vaginal examination is a harmless procedure becoming dangerous only then the uterine cervax is passed

ODENTIFY (G)

Van Dol en W W The Full cy of the Present Treatment of the Postp rturient Brea t im J Ob t & Gy 927 x 216

The author cultured the mouths of fifty nursing babase from 3 days to 2 vests of age and found them to be almost entirely free of either streptococt or staph) lococt or grains found on thrity of fifty cultured breasts. The salaw of a nursing child was found to be a good medium for the growth of the country of the countr

Hypochlorite seems to be an antiseptic safe for both mother and child Experimenting in fifty cases with solutions of varying strengths 1 an Dol of mound that i hen sopped on the breast with a square of sterile gause for one amune a solution as weak as o e tenth of i per cent will kill all surface brecers. A culture of a breast that trated aboved to grown as a cear mature of physochionic and broth (hypochlorite one tenth of i per cent).

MISCELLANEOUS

Stie e H A Hum n O um 13½ Days Old Intact in the Uterus and Obtained by Operation (I a 13½ Tage lies d r G ba m tter hal t es u d d ch £ gnd g mess hich s Li) fak b f M pf l k kop A ol 1975

This art cle describes in detail a young human ovum. The womin 34 years of age had borne two child en and had had no miscarriages. Fo one year she had had profuse menstruation last ng six dais e er; three weeks and as a result w is so weakened that hysterect mw was necess fy (Sellheim). An cay by egancy i as suspected which it was be

heved the weakened woman should not be allo ed to carry to term

The corpus justeum was a stuated on the left use and the own near the right tubal angle. According to the last harmorthage which was much is severe than the others the age of the own on the bass of mensituation was 80 days but according to the since conception was 30 days to reckness time of the mutual transfer of the decrease of the decr

The chorionic cavity showe I a unifo m mesoderm that penetrates everywhere in villy both covered by a uniform Langhans layer and a simple lay rof syncy trum presenting in places large vacuoles. The Langhans layer passes over to the villous lavers in larger collections of cells. In the mesoblast of the ville many cells show d vision and in the centers of the large vills two or th ee nucles are often enclosed in a common cytoplasmic mass apparently vascular anlagen without blood. The pedicle of the allanto shows a similar structure Epithelio d cells appear to be the remains of an ammotic d ct but very sim ilar cells are to be seen in considerable numbers at other places in the pedicle of the alianto's More over it contains islands of blood and also endotte lium of blood vessel walls Islands of blood are present also on the surface of the vitelline sac and between the ectoblasts of the vitelline sac and those of the covering It is probable that the blood vessels of the chonon derive their blood from the utface of the vitelline sac and the pedicle of the allantois

In the ea ly weeks of pregnancy the capacity of the ammotic sac is very great in comparison to the size of the embryo. If the ammotic sackept pace with the embryo in its growth it would have a c pacity of about 400 thers at the end of pregnancy.

Anne hand ed and forty two pedicles of vills are uniformly distributed over the surface. They are larger at the base ranging up to 10 mm in length (average o 7 mm) but at the top on the capsule measure only 0.3 mm. The coagulum plug has no

The bran hing of the vill is tree like and bish like All of the vill are embedded A trophoff six shell connects the tips of the villi. Occasionally two villi of different pedicles are connected by their mesoblast.

Another important finding is that the cells of the basic layer (Langhaus cells) in the covering of the villa are drawn into the syncyti m. The tema set the implantation sync tim are found throughout the de idua at the juncture of the latterpholista are the control of the latterpholista and the production of the control of the control of the control of the control of the latter which is the control of the control of the latter when the control of the control of the latter list spectifies and to be found. The differentiation between two

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Mattes A Bil teral Pyelo Ureterograms A New Conception of the Rationale J im If 1ss 10 7 l x

Mattes reviews pyelography from Voelcker and von Lichtenberg s studies in 1906 up to the present time In his own experiences vith bilateral pyelog raphy in 220 cases he found that from I to 1 c cm of adum sodide solution sufficient to give accu

rate pictures

He believes that in most ca es bilateral pyelogra phy is safe much more apt to be painless than unilateral pyelography and preferable to the latter whenever possible because a complete study can be made at one cystoscopy No attempt is made to prepare his patients for cystoscopic examinations He insists upon small amounts of fluid and uses a 40 per cent solution of sodium iodide

An interesting development of the discussion of this report was the or position to routine bilateral pyelography by Kretschmer and Thomas

FLAFR HESS M D

Stevens W E The D agnosis of Renal Tuberculo sis Report of Cases J 1 JI As

In renal tuberculosis the tubercle bacillus is often beent from the prine before the condition extends to the pelvis of the kidney and when the preter is occluded and at times is not found in the urine even when the renal nel is is involved and the ureter is patent Renal tuberculo is is often discovered first at autonsy there having been no symptoms during hie In one cr e guinea p gs mocul ted from each Lidney developed tuberculosis though following the removal of the right killnes, inoculation tests from the left kidney were negative and the patient was well after one an I a half years. In other cases in oculations have failed to cause tuberculosis in guinea pigs hen sl des an l'cultures were positive Lowenstein say that we cannot depend upon an amil a loculate n to determine whether or not a strain pathogeni to man Thi informat n must be obtained from pure cultures. In cases presenting o is such smpt ms tla lier stritation and the pre enc of rus and blood in the urine negative urine cultur a e of definite liagnosti val e

P fpat on thr ugh the vagina and ectum may re verlan indurat d' nd nodular preter Subrutaneou inject ons of in fig rmine may help to I ate the u eteral ifi e Wil Holz sa s that a little pus and a few tube cle bacill e pathognomoni of renal tuberculos: nly hen there i an increase of renal fun tion. The tuber ul n 1 st a impo tant only when it is no itive

In tuberculosis of the bla lder the capacity of the bladder is decrea el as a rule and listention is usually more painful than in any other pathological condition of the urinary tract

Lositive roentgenographic findings can be de tected in from 15 to 30 per cent of the cases The shadows are of four kinds-numerous small areas one or several large areas diffuse areas and areas of calcification. Pain and tenderne's are le's pronounced in tuberculous infection than in ca es of stone but stones may be found in a tuberculou kil ney The putty kidney 1 rare but may le hag nosed from the \ ray picture alone

Renal tuberculosis occurs most frequently le tween the ages of 30 and 50 years ar I is rare un ler the eighteenth year. It is very rare in pregnancy When it is unilateral imme liate pephrectomy is indicated BENJAMIN F TOLLER MID

Herbst R H and Polkey H J Ectop c U eteral Openings Report of a Case J Lil 027 11 6

The authors report a case of ectopic ureteral orifice in the vagina. The chief sign vas incon tinence

From a review of the literature they conclude that heminephrectomy i often in licited in such cases as the majority of ectopic urete al orthog belong to supernumerary preters which drain a part of a double or fused kidney and in many cases the ureter is dilated and the part of the Li lney it drains is dilated and infected making implantation un certain However when the lo er en l of the ur ter is accessible and a study of the upper crimity tract fail to show any marked dilatation and infection some type of implantation may be ad isable

I SYDYLL RITTER M D

Tolson H L U eteral Strictu e in the Male and Female with Particular Reference to th Symptoms and D gno ls S g 61 027 1 43

The author rest ws 100 consecutively treated cases of treteral stricture dealing chiefly with the symptoms and diagnosis Seventy fi e of the pa tients were between the ages of 21 and 40 years an 1 62 were females

Leeteral stricture 1 a common pathological con dition. In a large percentage of cases, the ton if are the source of the infection. The chi f complaint 1 usually a pain in the abdomen or back. The pain has a wide range of intensity nlis variable in type

From the hi tory and physical e amination the diagnosis of preteral stricture can usu lly be made with a fair degree of certainty. The ultimate dag nosi must of course b made by evstoscopic but the highest a ter content is found in the blood of the new born infinit. On the average the residual to yeen and use antrogen are higher in the bloof of the new born infinit than in the bloof of the pregnant woman. Ure card a inter-sed in the mother's blood at the end of pregnancy and especially at the time of both and is shaded in on the blood of the child

Amino acil nitrogen is high in the newborn infant and normal in the mother. The content of prefer med creatinin is about the same in the blood of the mother and chill but was found increased once

in a ca t of evere eclampsia

in a ca. or evere exampsia.

Calcium and inorganic phosphorus are increase I in the chill. In the mother the calcium content of the blood is lecreased at the end of pregnancy and in eclampsia. The pho-phorus content is only alghity decreased in normal pregnancy and in eclamp is may be very greatly increased.

The sodium and potas rum contents f the sera of pregnant and non pregnant somen show !til difference but are increased in the nesborn in

Reference is made to v ork on the sugar and hipoid contents of the blood of the mother and chil. The sugar content of the whole blood the plasma the serum and the blood cells as increased 1 the mother

and the child

In the pregnant oman the hood content is us creased in the serum but not in the blool cells 11, components of the I pool compil x in reuse poper tionately. The erum of the thold ablood is marked 11 poor in Inpuds wherer the whole blood I the hold have considerably higher I pod content than thind have considerably higher I pod content than the hold and the hold of the third is not because I pod the hold fore the child a red blood cells are particularly and in hould 60.

comprehensive series of studies during cystos opy viz right angle forward and reit ogra e posterior urethroscopy and preter t theterization with the same outer sheath and without breaking his aseptic technique the angers of both hands which touch only the sternized portions of the irstrument and preteral catheters bes g kept quite distant from the face The ability to rotate the instrument with out revolving the irrigating apparatus and connect ing hardle is a very great advantage. The large stopcocks greatly facilitate vesicle lavage and evacuation. Alto ether the in trument scems to provide innovations of considerable value for the r an fold problems en ountered in cystoscopy

Rn e D K The Dete mination of Bladder I res ure with the Cyst meter A New P inciple in Diagnosis J t M 45 9 7 1

I I DWIN KIRLPATRICK

Measurements of bladder pressure are of great value in diagnos 5 particularly in solving such problems as whether a case o in ontinence i of neurogenic origin and if so which set of nerves is

chiefly involved

Rose has devo ed an 1 strument called a cys tometer by means of whi h intracystic pressure can be measured with suffici at accuracy to afford impresant charcal information. It consists of a 15 e cm syringe enca ed in a box whi h is operable by hand or by foot and by means of a two way valve forces a more or less steady stream of fluid through a catheter or a cystoscope each cubic c numeter of such if id bein recorded within new simultaneously with the intracvetic pressure. The information ob tainable is therefore the e act intracvistic pressure as the bladd r is being filled from the first cubic centimeter to full capacity. The pressure is meas ured in millimeters of mercury and the result i registered as a curve between millimeters of mercury and cubic centimeters of fluid

Quite exact data can be obtained also as to the strength and sensibility of the Hadder wall by noting bladder sensations with the varying intra cystic pressures and the as ociated amour to of fluid

GILBERT J TIOMAS M D

Fullerton A Tuberculosis of the Bladder and Kidney I hd W 50 10 7 P 5

Primary tuberculosis of the bladder is so rare as to be almost non-ext tent. The efficiely mis is often a so arce of bladder tuberculos, but bladder tuber culosis is usually secondary to tuberculo is of the kidney. The author has frequently seen infection of the sidne tollowed by secondary in of ement of the prostate seminal vesicles and epilidemi some cases the re has been a definite focu of tuber culosis el e there in the body uch as tuberculous glands in the neck pleurisy hip disease and caries of the spine or pulmonary tuberculosis which had undergo e a cure of remaine i more or l' sinactive In many cases the patient i extremely healthy in appearance has no evening rise of temperature and

except for a very marked frequency of urmation

entoys almost robust health

ist att ath tuberculous le sons of the urmary tract almost always have frequency of urmation At first this is light but it tends to become more marked Later th to is hæmaturia at the end of voiding and soon there is an almost constant de ire to empty the bladder and the act of micturition is associated with considerable pain and straining. In bout so per cent of the authors cases of renal tuberculosis there was pain of varying severity Severe renal hæmaturia occurred in only a very few blood in the urine usually being associated with inflammation or ulceration of the bliller

In all cases of frequency of urination vith pus in th urine an investigation should be made for urmary tuberculosis While in rare instances tu hercle bacilly and nus have been lound in the unite in the absence of tuberculous involvement of the uri nary tract their association with frequency makes the diagnosis certain. The testes epididymis and seminal vesicles should be examined. A rectal examination may reveal thickening of the ureter. In the female a thickened ureter is almost diachostic of tuberculosis

In advanced vesical tuberculosis cystoscopy may result in perforation of the bladder. It may be im possible to find one ureteral orifice but the finding of areas of apparently normal bladder muco a here and there in the presence of severe vesical involve ment is believed by the author to be almost pathog nomonic of tuberculosis. When a positive d'agnosis cannot be made in this manner. Fullerton exposes the ureter through the usual gridient type of inci ion Pyek graphy is of valu but not entirely desord of risk

The conversion of a kidney into a cr cous mass with an impersious ureter may be an attempt of the body to segregate the di cased organ With our present knowledge we are justified in recommending nephrectomy as the best and urest method of effects ig a cure of renal tuberculosis with or without secondary involvemen of the bladder If the is performed early before the bladder is involved relief 1 almost immediate. In any ca e it is follor ed by a better chance of a cure less hability to the cop pling effects of scar tissue in the bladder and greater immunity from recurrence elsewhere

CLAUDE D HOLVES M D

Wade II The Treatment of Tumors of the Urinary Bladder Ed b gh 11 J 19 7 xx fed Chr c Eu burgh ;

The author discusses the nature of bla ider tumor in general eras hasizes the tend ney of such neo plasm to cause early sudden hamorrhage and reviews in some detail the various methods of tseatm

Sudden painless hamaturia in an apparently healths person is due most probably to a tumor of the uri ary bladder Blad fer contraction on panil lar) tumors after voiding is sufficient to can e methods When possible the passage of a ureteral instrument with a bulb and the feeling of a firm hang in the ureter during the removal of this in strument gives the most reliable Lyidence of stric ture In some cases only the smallest bouge or whale bone filiform can be passed at first

Pyelo ureterograms give dependable information

regarding Stricture

The treatment consists in gradual dilatation of the stricture areas appropriate treatment of the associated pathological lesion in the urinary tract and the removal of all discernible foci of infection Large buibs on catheters and boug es can be passed with almost equal facility in the male and female through the McCarthy panendoscope

The most valuable rhysical sign has been tender nes elicited by pressure made with one finger over a point approximately two fingerbreadths below and to either side of the umbilious

C TRAVERS STEPITA M D

BLADDER URETHRA AND PENIS

Robinson T A and Foulds G S The Late Re sults After an Op ration for Exstrophy of the Bladder B I J S g 917 x 5 9

The authors report the end result in a case of exstrophy of the blad ler which was reported origi rally by Starr and Leters The patient was first operated upon for left inguinal hernia in 1902 when he was sixteen months old. Three months later he was operated upon for prolapse of the rectum. On January 24 1905 Peters transplanted the ureters into the rectum by th extraperstoneal method and removed the remaind r of the bladder wall. In 1924 twenty years later the patient was operated upon for perirenal and renal abscess

This case is regarded as especially worthy of record because of the numerous operations and the fact that the patient was still all e and able to work twenty-one years after the operation for vesical FLIFR HISS M D exstrophy

Young H H : A Critique of Modern Cy toscope Presentation of an In trument Embodying New Features J U 1 19 7 x 7

In co-operation with Wappler the author made modifications in the Brown Buerger cystoscope to overcome certain defects. The defects and the modifications made to correct them were as follows When the instrument was rotated the irrigat

ing tube attached to one of the irr gat g coc s lecame woun I around the instrument considerably interfering with its free usage

Modification The stopcocks a d the electrical connection vere placed on a sie e v hich rotates freely around the uter shaft of the instrument

2 The eye piece wa so close to the ureter catheters that they were likely to become so led by touching the face or eyeb ons. In rotating the in strument by the milled head of the obje tive the fing rs were apt to tou h the face or eyebrows and become infected

Modification The telescopes were lengthe reland a milled metal di k 3 cm in diameter was attached to the instrument to all wit to be rotated without contamination of the perator's fingers

3 The connection piece to which the coni was attached was so sho t that the left hand holding the instrument became infected from the cord Modification The connection piece was length

ene I and placed on the rotating sleese 4 The irrighting cocks were so small that irr ga tion was a slow an I ted ous proce lure wasting much

time Modification The stopcocks were enlarged to a diameter almost that of the interior of the cisto scope \ friction connect on may be used t attach

the irrigation tube to the stopcock 5 The device for fastening the telescope to the outer tube was unsatisfactory and often came loose

during cystoscopy Modification A hook latch was devised to hold the telescope to the heath which makes a satis factory fastening

6 The right angle telescope did n t furnish sufficient informati n

The extreme posterior wall and the vertex of the bladder are difficult to see and of the interior t all and prostatic prince only a d sto ted magnified

and unsatisfactors view was obtained.

Mod fication Four telescopes were provided which may be used with either a posterior sheath open on the convex surface or an anterior sheath open on the concave surface

The right angle viev observation telescope and the right angle view double catheteriz g cystoscope are usually used in the anterior sheath for g neral

c) stoscopy

The retrograde telescope has a n w le s system It is better to se it with the anterior she the It give an entirely new view of the prostate orifice and also of that part of the anterio wall of the bi dier whi h is generally hidden b hind the prostatic margin Close or distant views may be had of the lobes of the prostate When the instrument is revolved the view does not rev le with the instrument This i the first removable retro-rade telescope with the fixed lens system

The forward view telescope has a line of vision directed 35 degree from the right angle. It i best employed with the p st rior sheath. With this combin tion the ve te of the bis ider m y be seen It is especi ily valuable in the study of the po ter or urethra the verumontanum utricl ejacul tors thral po t one of the median and ducts and int lateral lobes : cases of hypertrophy

8 No provs n was made to attach the cysto scope to fil f rm hen s ch as necess 13 to pass the instrument

A sepa ate c p was devi ed fo the Mod fi atto attachment of a fillf rm to th cyst sc pe

In conclusion the uthor says The dvantages ith c mbi tin fin truments would seem to be th t fi st of all th perato an carry ta more tissue was demonstrate! Venous sinuses sur rounde I the ejaculatory ducts There vas a large artery situate I between the ducts and nosterior to them The epithelium of the elaculators duct was transitional becoming columnar as it reached the prostate glan l

The author concludes that the eminal vesicles are distended when fluid are injected through the

va deferens because

The normal resistance of the walls of the enculators duct of which the lumina become g a lually smaller as they approach the urethral floor can es the hands to flow toward the seminal vesicles

A large mu cular organ (the prostate) sur roun is the ejaculators ducts and offers resistance

to their distention

The ejaculatory duct has no musculature of its of n to exercome the resistance of the prostatic mu culature

4 The lateral all of the duct of the seminal vesicle contains elastic ti sue which is less resi tant

to distention than muscle tissue

The seminal vesicles are di tend I when solutions are injected by way of the ejaculatory duct prior to the appearance of any of the solution in the vas deferens because

The luct of the eminal exicle is a direct con tinuati n of the ejaculators luct

The lateral wall of the duct of the seminal ves icle contains elastic tissue an l is therefore le s resistant and more readly distended than the ampully of the vas deferens

The lumen if the ampulla of the vas is sur o nde l by thi k mu cle walls and its orifice onens super mes ally into the ejaculators duct

a Tie lumen of the ampulla contains several valve I ke protect ng folds within its lumen which ten I to obst uct the entrance of flui i into the vas defe ens J ED VIN L REPAT ICK M D

L ng r E The Significance of the Roentsen P o

cedur in the Diagnosi and Control of the T estment of Ur th al Di ases L ! C ! s Re 97 D 2

In th uthor's technique for urethrography a Janet syringe with a capacity of from 100 to 150 c cm and a pe cent todapin solution are used li the entire wreth a i to be studied from 20 to 50 c em f th todig n 1 equired but for an investiga tin i all th anter r portion 10 or 12 ccm is suff ci nt

In in ramin tion of the ent e urethra the posit on of the p tient 1 v 3 important. To prevent p rt of the pa s bulbosa from overlapping ach th th pati nt lying on his back must be turned to a tan angle f from 10 to 20 legrees th I g under eath strongly fl 1 at the kne with the thigh bducted and the upper I g held straight with the thigh abducted

The postion is n t nece sars for a study of the

anterior prethra

The prethrograms will reveal strictures a divertic ulum of the par bulbost pocket like dilatitions and diverticula caused by multiple strictures congenital deformity of the urethra and bladder fal e passages tumors and paraurethral and persurethral abscesses To study the progress of a case repeated urethro erams may be made

Urethrography is a valuable adjunct to urethros cons and the use of sounds but should not be substituted for them CLYUDE D PICKRELL M D

GENITAL ORGANS

Thomas B A Pre Operative Care of Patients

with Prostatic Obstructions J U 1 1927 Minney W 11 Postoperative Care of Pat ents

After Prostatictomy J Url) 7 X1 03 THOMAS states that the pre-op rative treatment of

patients with prostatic obstruction should include bladder drunage and renal decompres ion physical and drug therapy the determination of operability and the determination of the best method of opera tion for the particular case

Drainage of the bladder 1 best accompli hed by cytheterization or cystotomy. Under ordinary con ditions cystotomy is preferable especially in cases of stone marked cystitis tumor diverticulum or con triction of the urethra. When simple drainage and decompression do not suffice diuretics urinary antiseptics and cardiac stimulants are required The bowels must be kept open and from 80 to 100 oz of water given a day with caffeine sodium benzoate and digitals

See alone is never a contra indication to operation The chief factor determining operability is the general cord tion Elimination tests determinations of the blood urea nitrogen and tests for hyper glycamia are important. If the blood urea nitroren is over 30 mgm prostatectomy is contra indicate ?

Myocarditis or marked arterio clerosis may con tra i dicate operation. The bloo I pressure is of importance i blood pre sure that is too low is as unfavorable as a blood pressure that is too high. If the s stolic pressure is 110 the dia tolic must be 60 or over If the diastolic is less than 60 the systolic must be over 110 Other ise operation is contra

indicated Digitalis may control the condition The choice of operation requires careful di crim

inition and cystoscopic examination

It Ev states th t the care given after prosta tectomy is just as important as the pre operative care I ostoperative shock 1 often prevented by the u e of local and thesis and care in the operation Linn 5 recommends hypo termochesis immediately up to 2000 c cm daily if compensation is good Hemorrhag must be prevented by careful ligation an i packing If necessary transfusion may be d ne To prevent infection the vound must be kept scrupulou ly clean kinney removes the packing caref lly on the second or the I day a rigates drilly with boric acid and instils i per cent mercuro chrome or 10 per cent argyrol

the ling. He amount of Heeling virus from a trace it a profu hymaturia with the passage of large cl ts

lapillars tumo s are I three van ties -tle lemen villous type the tr n tional malianant pap flars type level ping fr in il I enign type and the primarily mal grant type I exict lagno is can be mal only lacy too ficecam nate nanily rem sal with the est woof r ngeur of a specimen f r 1 thol gical exami ut n The latter methol h wever a open to the laction that it is not in licrite linea es of Ivi u li mal g ant tum e an l in bor le l'ne cas s i li rem ly the uter o le ign porti n Laving tl beginning m lanines at the lie f the tum runt u he!

In the lat ral vew the appear ne ftle ber n vill u par ill ma may re emile y el sels that f an oak tree When to ue anqualatel t is righ enel vi ular in l granul r milignance i ug g stel I ate in the cure of malianance the characterit tran hing I sappear the sills fuse the trunk like ppearing east t the tum r be ome ses il and ultimatel the u fa e f the growth may be me ul erat 1 nic cel ath a cray luth the appearance for times popular car in ma re mile that for similar mal grant gro thin any part of the al mentary a I fr m the

re phagus to the rectum The treatment I tumor I the Utiller is le termine ! I then ture uze great an ! li semina ti not the gr with I > the be ign ill u ; fill m the st tr atment : fully ation \ nun ber of su h treatments at inters ils ftw ecks my le ne es sary to lestry th tum r moletely If a tum r of the type is too i ra for fulgurat or a supr pulic es tot my a th rem al f the neoplasm m i be tone In this pe tion grat care mut be taken to present the impla train of tumor ell in the regin of the blatter a unl Fraveir after the operat n th auti ut; t his patient to fe quent yt op ex miniti ns in rl th t he may be alle to fulgur te any laughter tum rs that ma appea

Mal gnant ; util m t us bor ferl ne tum rash ul ! not be fulgurate I the best results are I tar ed vith

In as fprm rv e rein ma fth Ilalier tle treatme t to be given ferent upon the tunts n and extent (the g with Inm n caes ; still cy to t my ma bed ne su ces fulls In at an el case the pun may be relie ella t tal test my D H LW

M Corthy J P Ritte J 9 an! klemper r I A at mic I and III t logical Study of the tt Fl cultt) D cts J l 1 9

fth Iter ! e on the n tomi } Inacı albitlg al! tentis of the m nt num nieja ilt vlut teath fulth was male to R tter and blemt ret in co-of ration

with Norris chief p that git of the City of New herk to place the anatomy and he tol gy of these structure on a more exact basis. The two chief problems sere

I What is the greene cour e taken Is the e; culator; lucts throu h the serumontanum and

2 Is ther an r femat us or infiltrative closu e of the lumen of the duct in a c n ferable number of (46)

Figlity specimens are examined gro h and e er ood mir opical ection were made from t ents pecim n s ctione I senalls in three d men

On the anter I incl ne of the verum at mum sit u tel in the paters r wrethra the nir cle openel in the mill ne and the ej culat ry lucts opened an ter literal to it in 80 per cent of the specimens In 5 per c nt they of ene ! lateral t the utricle a ! in 15 per cent po ter I teral to it No e opened within a mm of the ma gin of the utr le The orifices were pen a I no valve I ke format n wa seen protecting them

The ejacul tory du is average lig mm in 1 cth and to mm in circumferen e at their orifices. The duct became larger as they appro ched th seminal se ale at wh h point the raver g e reun ference as 45 mm The h elasery sharp lp of 45 le rec 11 their c ur e fr m the urethr I orifice through the scrum atsnum t the urethral floor The tet leggel labtly and then co se gel until there as only a thin film classe eptum separating them which was easily restorated even wh a soft fle ible astruments were use ! Thro th the pro tate they ran pa silet tales c te angle t rminating at th termination for within the ul tance f the slan !

The lumen t the fuct of the emt al e cle was s nm in er umferen e ince it w sa frect n tin t n f the ej culatory fuct The lumen of the mpt Il of the vas lefer as measured 3 mm in circumfer nce It ope el nto the fuct of the sem inalise il tana gle f 30 degrees o more supero m s lis to f rm the eja ulators duct this forma ti n taking pla e within the pro tate gl nd

the s rum at num h ! a thin I ser of sm oth m sele extending ove it and supports gits ep el I m he b is d'ert exten on of the ept th lum an I mu le f the u ethra It ha la fibrous t ue stru ture ent ming! I with smorth muscle a ! ntai els m l ti tissue surro n! g the ni tulul wh h gr lu lly faded into the in t titt It su ftlej tite

ie ni shipe Iro tatic 1 Th utr I r u i itic utrele a l jened into ils tul uf Som I t t u ppr matel m tat r) f nen lel c e surr nit git Fleejtult lut fre asntpr tected b

mu l tap fitss e ome lastic t s fol lo el tle l ct lut n lest te m scle layer was oct tel th them. Whe e the ampulta of the v s 1 ned the ejaculatory d et den ite muscle inflammatory process Ball cites four cases treated for cystitis in which the appendix was the factor re possible for the infection and it was clearly demonstrated that the local attachment of a part of the intestine to the unnary tract was a cause of chronic persistent or recurrint infection pre um ably due to direct transmi soon. The abdominal untert and renal pelpins may become involved in the

Simple inte tinal fistulæ are unlikely to cause many cases of infection of the urinary tract but diverticulitis and colonic neoplasm u ually bring about infection by direct involvement of the urinary

pas ages in their di ease processes
Of hity cases of carcinoma of the colon and rec

tum none was responsible for a hamatogenous infection

Of fifty eight cases of colitis urinary lesions were

found in only three

A study of 116 cases of salpingiti showed that
the frequency with which lesions of the urinary
tract are as octated with inflammation of the tubes
is almo t the same as the frequency of their asso-

ciat on with di ease of the appendix
GILBERT I TO OVAS M.D.

Scholl A J Histology and Mortality in Tumors of the I rostate Bladder and Kidney C life & Heal Med 1917 xxv1 185

There are two types of prostatic carcinoma. The less malignant type correspond closely to the nor mal structure of the prostate. The other is made up of irregular masses of cell, with no differentiation.

The common epithelial tumors of the bladder may also be divided into two primary groups the malignant papillomata and the solid carrinomata. The first group 'thin is made up of tumors retaining to a considerable extent the characteristics of the bladder mucosa and the beingin papillomata is less malignant than the solid carrinomata.

management that the shoult extributed as the management of the kidney are divided primarily into the papillary adenocarcinoma and the alveolar car comman goods. The papillary adenocarcinomata command and the shoult car command and are of several different types with coveres gooding and are of several different types with coveres gooding and are of several different types with coveres gooding and are of several different types with coveres gooding and are of several different types with coveres gooding and covered the several different types with coveres gooding to the covered the several different types with covered to the cover

The difficulty or ea e of the removal of a tumor is a most important factor in the prognosis regard le s of the mal gnancy

Lott GRES VID

The time required for convilecence is usually in meres proportion to the pre-operative treatment given When acido occurs sodium birrib nate shoul'l be added to the salt solution used. Hippo static congestion may be prevented by moving the static congestion may be prevented by the static congestion of the static continuation of the static confession of cold compresses and 5 per cent putancel oritiment. The blad fer tone may be brought back to normal by turgating with mild brought back to normal by turgating with mild

BENIAVIN F ROLLER M D

Vieyer II W Undes ended Testicle with Special Reference to Torek's Meth d of Orchidopery V g Gy c & Ob! 19 7 xlv 51

The etology of undescended and ectopic testicle has not yet been definitely settled. Many theories have been advanced. The most important are those concerning the function of the chorda gubernaculi the length of the spermatic vessels the size of the injunal carol the size of the strotum and the posture of the child in the uterus.

The histological changes point to the fact that spermatogenic cells are present and function in about to per cent of cases. The interstital cells which have to do with the development of the secondary setual characteristics are always abundantly pre ent. A these findings are almost constant undescended testicles bould always be saved

Secondary complications occur Mal gnant de generation is not as frequent as 1 generally sup posed and fevr of it does not warrant orch lectomy of the ment of the form that the frame practically always present torsion of the pe matte cord a 1str ngulation of the testude are so common that surgical interference is always indicated

Pain is the most frequent symptom Symptoms may be produced als by complications. In adults psychic disturbances may occur on account of the depression that comes from the knowledge and fear fabnormal se ual ty

Operation is always indicated if only to cure the

herm: Orchidope y should b pe formed at the same t me Castration is contra indicated. The best time to operate 1 before puberty be twen the eighth and tenth je is of age in cases

the on the eighth and tenth he is of age in cases of uninteral undescended testicle and earlier in bil ter lease. The method described places the testicle where it is fee from an le traum—dieves it the bet chances de el p gros and function. To ek s method of orch dop ty s the best me in second and the control of the con

of curing the herma and placing the test cle in its norm I post in It maintains a full blood supply to the testicle which comes to be in the both in of a ell formed scrotal s c. It is jut as appl able to

b lateral as to un lateral cas s

C TRAS SS EPIT M D

MISCELLANEOUS

G lbraith W W and Ridd H J R The R dological Examination of the Urinary Tract Ur I & C to 1 R t 19 7 xx 1

For roentgenography of the urethra the authors recommend th techniq e used by Fohnstam and Cane This has not been used by them honever as they have not fold it necessary

C) stograms are used to demon trate dive touls.
They are made also in cases in which endocroevamination is impossible or impracticable. A solution of 12,4 per cent sodium nodule a used.

A ureterogram is made of only one and at a time. The catheter is pa sed for a distance of about agent which bright it to the ureteropels cymeture. The first picture is made after colle time of the pecumen. The catheter it then withdrawn to a point just above the ureterovescal angle, the 12 * per cent solut on of sodium iodide sarreally injected and the second film made. Justis stri tie solutions calculi, and the relation of the shadow to other vidoriumal shadows can be demonstrated.

other vocomman snagows can be demonstrated. The technique of pelography is small ro to it of a cterography except that the second film is made before the catheter is ithdrawn. Hy dionophron tumor of the pelvis or is line; substance nephropic asset calcula and developm nell abnormalities are revealed. Cut to D P CERILL, MD

Ball W G S me Anatomical Facto s in Urin ry Infections P R) So Mrd Lond 9 7 x

B II raises the questio s as to whether infections ever persist in a normal urary tract and whether in the absence of obvious lesions of the tract it is not correct to assume that some exter ral case is press it. He is leves that such infections a e often caused by direct contact of the unnary pas age with infect ye les ons of the inghboring structure is

Of a ser es of 200 consecutive bacterological 1, vest gations of infective pro reses occuring in the urina y passages 6g per cent showed some pretrices as admission of the urinary passages above the site of the les ons a fact supporting the theory that dilatat on of the urinary passages above that dilata on of the urinary passages favor the occur ence of infective processes by powding 8x sustable field for b terra on by lowering the control of the substitution of the urinary passages favor the occur ence of infective processes by powding 8x sustable field for b terra on by lowering the control of the substitution of the substitution of the substitution of bacter a which retuited in

the blood at m. The fee new the which almentary bacte a a efo nd in u n ry infe tions a gae is a vest given of the net n. B. Il has olected a large mbr of cae six whith ur narv symptoms and infect is I one were dependent upon an ination cal relationship texteen the bowel and the urinary tact

It re so at let s pp e that in the majorny of cases of ppendi tis ome part I the unary tract must come nto very close contact with the such tumors are considered benign growths. Bloo I good has reported forth seven cases and Coles fifty ca es without meta ta is Lodman states that in over 100 cases of grant-cell tumors with have been reg stere I there was not one cale of true metastasis

The first ca e reported by the author was a ca e of true grant-cell tumor in the regi n of the left knee I almonary metasta es les lope l and the patient died In the econd cie there was a gant cell tumor in the re i n of the left knee which I roke

int the joint cavity The first case represented the type of true giant cell tumor which undergoes malignant change f l lowing mild operative interference and trauma while the econd represented the borderline aggres t e type of giant cell tumor hich is more sugge tive of malignancy chinically and roentgenologically al though it is benign in crosconically

LUB LER S KELT MID

Sayder R C and Fineman S A Clinical and Roentgenological Study of High Colonic Irri and Cl ronic Arthritis tm J A te / o

The value of various enemas and irrigati as in cleansing the colon of barium re i lues was teste i in 215 cases The residues were the i fteen hour re idue following the ing stion of I lb of barium and the amount of ha sum left in the c lon follo ing the evacuation of a standard muciliginous barium

Soapsuds e emas (2 qts) were found mo t eff a ous However in 64 per ent of constinated indiv du ls and in 36 per cent of patients without a history of constipation the soap uds enema failed t cleanse the colon c mpletely. In many cases in

which the enemas failed arrigations succee led In fift en con coutive attempts the tube was pas d beyon i the sigmoid thirteen times. The henatic flexure was reached to ice. That the price

du e is not e p cially dang ous when it i us. I by persenced persons working under ideal conditions and aided and forewarned by previous roentgeno logical study s is shown by the fact that 2000 such rigations h v been carri I out without a mi han

Since the addition of this form of treatment to the well kno n th any farthriti the clini al r sults in th auth s cases have been definitely C AR ES II HEA OCK M D

h chia I W Studes on the Blood Calcium and Pho ph rus in Arthritis JB &J 15 c

Because there is one type of arthrit character zed particularly by bony or ig owth about the 10 nt Sachl a made studies upon the phosphorus and calcium c nient of the blood the latter being presumably the medium for the tran portation of cal ium and phosphorus to the bony tissues. The chemical tru ture of bone has been fairly well

e tablishe ! The salt C \ (I O₄)2 constitutes about 8s per cent of the increance elements

By microchemical methods it has been no sible to c tall h the level of the element in the n rmal a lult as o g to 10 g mgm ef calcium and a to 4 mgm

of ph therest 100 cem of ble 1 The author letermined the erum centent of cal jum and pl phorus in thirty even exces of arthritis whi h were classifie I into it o groups

t kleumat it arthritis in which the mortif change occur remards in the soft to sues and the periarti ular an Isanovial tis ues un lergo thickening with hypertrophs of the synovial fringe and ultimatels all of the constituent elements of the joint become invited by a process of atrophy

O teo arthritis in which the primary changes occur in the cartilagin us an I bony structures s hi h un l igo enlargement or hypertrophs s ith the f rmati n of o teophy ti outgrowths

In these investigation, the author was unable to verify the cl ervations of these who have reported an abnormal ty in the calcium metabolism in ar thritis leformans. He states more ver that no reliable distinction was offere ! 13 his analyses for the entrate n of rheumator I arthritis from osteo arthritis L DIRT L LINER N M D

Sil er D The Rife of the Capst le in Joint Con tractures with Lape lat Reference to Sub perlo te 15 parati n JB cJ 15 g gr

In the anatomical sen e the joint cap ule consi ts of the synovial membrane and enough fibrous tis ue to upport it with occasional acce ory ligaments such as the \ lig ment and the ligament of Win low I rom the surgical standy out hos ever the peri cansular tissues must be considered as integral parts of the cansule. They increase its thickness and strength an I are a common site of the inflammators changes which lead to c ntracture. The most im portant structures are tendon fibers, fascial expan s on mus le attachments an l'cartilage re inforce ments The surgical cap ut is stronger on the flexor than the extensor a pect of a joint and when carti lage is present it i attache I in the concavity of the point

In simple postural deformities the effect of struc tural adaptate n and growth may give re e to d ns penarticular structures on the contracted st ! s In cases with trauma and hamorthing and overlong fixation of joint fractures in a fully flexe i or fully extended position there are ant to be cap ular con tractures Low gra le inflammators proces es such as the proliferative type of chronic arthritis are apt to re ult in similar deformities. In ca es with effusion and in the o to arthritic type this 1 less Very resistant contractures may occur as the r ult of trophic changes following nerve injury or the ligation of larger arters s to extremities

The capsul is evilently re ponsible for soft tissue contractures a hen the ten lons and muscles on the contracted side are not unduly tight and when

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Join on R. W. J. A. Phys. I. gical Study of the Blood Supply of the D aphy i. J. B. E. J. L. S. g. 927 v. 133

In studies of the extent of the va cular tree of the nutrient afters and the eff cence of its anastomotic trigs the pero term was stripped from the shaft of the bon and the me fullary c vity blockel off at the metaphy is ith wax plugs to cut off the blood supply

The extent and and tomosto of the metaphy ead thood sup I vas studied by stripping the periodicing up rupturing the nutrient artery and blocking off the medulla y canal with was plugs inserted through a drill d bole at each en lof the daph sis

The e experiments undicate that the nutrient vessels preserve the life of the entire medulis and supply the unner half of the corter. Actuse repar tickes place when the nut tent vessel alone are utact. The metaphysical vessels pie erve the I fe of the medulia and the unner h I for the core to the repart is not as sixtle with the controls are properties. The metaphysical vessels are the properties and the unner h for the core to but repart is not as sixtle with the controls are properties.

The periodical system does not normally supply more than the outer half of the corter and cannot supply an effective collateral circulation to the meduals of the druphysis in less than four weeks. The periodical rep ir is relate ely por in the healing of control defect. In the shall of the bone the nutrient west lare the first the metaphyseals next and the next ocal system that in importance and the next ocal system that in importance is and the next ocal system that in importance is a single state of the system of

This kno led e vill help to s le the pr blems of n numon delayed crism m is e bone trans plantation's and acute osteomychic and kin led d scases

R were S Rece VI D

Holmes G W Bone Tumors Thei Clas iff a tion and R entgen App sance Y # 1

Up to the present time the danger in the treatment of bone tumors had been due to to radical ope ations on beniga lesion. An accur ted agno a should be mide before surg ry as on it ed. Lwing Bloo Igood Codman and others of e persence in mortant of diagnostic all amountants should be first of the contract of the contr

or as multiple is in a cros ng artila e and n vaing jo ts it in t proluing expinsin of the bont hell Bengh tumors are p rely destruit e or prol ferative. Primary mal gnant bone tumors vish the extention of myeloma and Euring a tumor are single les ons. They i equently show new bone laid do nat right angle to the shaft. In the han is and feet they are extremely are.

O teoma and osteo hondroma are true bone tumors but they usually grow from a pedicle on the cort x and never invade or destroy bone

E chound mata are most common in the fingers and toes One of their chief charact tistics is regular bulg g and thinning of the corte. They may be m staken for grant-cell timpors.

Giant cell tumors are usually single central lesson near the ep physes of long bones or the jaw. They ten I to g on equally in all directions causing et puns on of the cortex but rarely breaking it. Their growth i slow. Their do not cross cartilage invade soft it sues o metasta ze. The shalow shows libulations mide by trabe ulw.

Bone cysts occur in long bo es and are charac tenzed by oval areas of rarefaction with few o no trabecular

O tregenetic surromata o cur in the shat of lon bone as single lesions. They gene ally appea before the thirtieth je r of age. The mai be distributed to the thirtieth je r of age. The mai be distributed to the thirtieth je r of age. The mai be distributed to the thirtieth je r of age. The mai be the control of the thirtieth is the thirtieth in the thirtieth is the thirtieth in the control of the thirtieth is the thirtieth in the control of the thirtieth to the thirtieth in the thirtieth is the thirtieth in the thirtieth in the thirtieth is the thirtieth in the thirtieth in the thirtieth is the thirtieth in the

film shot a loss I substance but no bone lo mat on Lange 5 tumor is min to a osteogenetic sar coma but i situated farther I om the ends of long bones and c uses mo e localized destru t on of the cortex at more periosteal in a bone I mu to a la responds m r read ly to 1 radiat in than other bone tumo 5.

My lora as of low growth and occurs most fire quently a the mar wof flat bones and after the fort eth vear of age. It c e th mung of the cort x a d sponts eous facture. The reentge 3 er a cembles the tof metastate car soma but the areas re finer nd h ster noutline. The less on always multipl. Will at Car. Wild.

Chattert n G C and Fl astad A E Pe uliar
B ha i of Gi nt Cell T mor J B 6 J st

S 1 9 7

The auth r pott o a es f gisnt ell tumo s
which io mel retast ses in spit f the fact that

He believes that free tendon grafts inserted to bridge a defect in the tendon continue to live as such and that it is safe to begin active motion in these cases at about the tenth day while retentive apparatus can be dispensed with on the twenty fifth day He states that after tenorrhaphy the return of function is dependent upon several factors the most important being the breaking away of the tendon f om it surrounding tendon sheath but the final outcome may not be evident for three or four months after the operation

PARL C COLONYA M D

Fié ez and Lecéne A Case of Spontaneous Intra capsula Rupture of the Tendon f the Long Head of th B ceps Brach lis (U cas d rupt r p tané nt apula e lu t ndon d l l nrue po ti d lu ps b achial) B ll et mém S c t d h 9 6 l to

In the examination of a 76 year-old woman for an old luxation of the left shoulder an intracapsular rupture of the tendon of the long head of the right bicens was found. The patient was unaware of the latter lesion and could recall no traumatism to the right arm. However, she had an arthritis sicca of the right shoulder a condition in which rupture of the long tendon is relatively common and occurs without trauma. The tendon i thought to be gradually filed though by the process of the dry arthritis finally rupturing spontaneously

The phenomenon i seen in other intracapsular tendon in the pre ence of arthritis sicca and is often acc mpanied by degenerative changes in the tendon Spontaneous rupture of the long tendon of the biceps equires no treatment as it usually occurs in old per on sho are not inconvenienced by the detachment Traumatic rupture of this ten don however requires operative therapy in the form of reinsertion resection or fixation of the tendon LEO M 7 DEFERMAN M D

Buchm n J Osteoch ndr tis of the Verteb al Body J B 81 15 8 97 1 55

The author di cusses a new disease entity de scribed by Calve as a localized affection of the spine suggesting osteochondritis of the vertebral body with the clinical aspects of Pott's di ease The three cases on record to date were those of children 2 2 5 and 7 years of age \one gave a history of ser ous injury. The condition was charac te ized by an insidious onset fatigu pain tiffness of the b ck and knuckle formation. In one case there were night mes. Poentgen ray examination revealed sho tening of the vertical diameter of one of the ertebræ

Buchman eports to new cases one that of a child is years and the other that of a child of II yea s The child 11 years of age was suffer ng from a ve teb al epiphysiti v hich apparently folloved an osteochondritts of the vertebral body

The differentiation between osteo hondrit s of the centrum and vertebral epiphysiti is based on the

ossification processes of the vertebræ The primary centers are all present by the fourth month of intra uterine life Among the secondary centers the superior and inferior epiphyses of the body do not annear until the eleventh or twelfth year In the five cases referred to the age incidence of osteochon dritts of the centrum was under 7 years Vertebral epiphysiti is rarely seen before the eleventh year

he author calls attention to the parallelism that seems to exist between osteochondritis of the cen trum and vertebral epiphysitis Legg Calve Perthes disease Lochler's di ease O good Schlatter disease cors vara cervicalis and all the other forms of osteochondritis that have been recently described Osteochondritis of the centrum and vertebral epinhysitis are undoubtedly parallel conditions in different perio is of growth and different foci

The various theories as to the etiology of osteo chandritis are discussed from the standpoint of the other better known conditions. The only conclusion that can be drawn is that of Schanz viz that the pathological picture is not specific but i a re ponse to the increased static demand over the static ca pacity This is in accordance with Whitman sconten tions regarding coxa vara cervicalis associated with Froehlich's syndrome viz that the etiological factor is not the endocrine dyscrasia but the in creased load thrown upon a weakened epiphy is Pathological conditions that may cause a diminu tion of the capacity to bear stres and strain are disturbances of the calcium and phosphorous metabolism such as occur in infantile rickets late rickets osteomalacia and the conditions resulting from the hunger blockade of the World War Ac cording to the author's observation the most com mon cau ative factor producing the type of esteo chondrits under consideration is the physiological weakness incidental to rapid growth

Roentgenologically o teochondritis of the cen trum is characterized by irregularity of the vertebral outlines and flattening and wedging of the vertebra follor ed by a stage of restitution when the vertebral outlines appear dense and sclerosed Deformity of the vertebral bodies ; the final result. The intervertebral spaces are widened in proportion to the thinning of the vertebral bodies

All of the treated cases have done well under t eatment by recumbency and the application of a plaster of Paris jacket The remaining deformity does not interfere with activity ROBERT C LOVERGAN M D

Ghormley R K. Heliotherapy in Relation to the Treatment of Tube culosis of the Spine in Children J Am M is 19 7 km m 289

Tuberculosis of the spine is treated at the New England Peabody Home for Crippled Children in Newton Center Massachusetts by fixation in a plaster jacket applied on a Goldthwaite frame. The jacket is bivalsed. The patient his alternately in either half of the jacket while sunlight or mercury vapor quartz lamp treatment is given

relaxation of taut muscles gives no increase in riobility. The limitations of freeful manipulation and gradual correction in such cases have led to

occasional division of the cap ule

Subperiosteral separation of the contracted portion of the capsule is offere i as a superior method. It is less famaging and yet m re comprehensive in its core than f reible c er etion It preserves the con tint its of the car sule better then simple capsulat omy and may often be performed subcutaneously In a teatime or tenot me which has been cut off at the mille and resharpened on the end and both sid a is used t separate the capsul After the skin las been in sel with an rdinary ter tome well on the ele of the joint and close t the joint he on the the of the cen ex segment the capsule is still to the elevat r the attachment of the cansule is r used al ng with the periosteum fr m the | int line out s ar I It may be nece sary to m Lean incision on one si le of the jo ni an l to c mplete the separation subcutaneously on the other sile Full correction may n t be secure t at once but the contracture will much m re eas ly len t itself to gra lu I corr vition

Contractures of the fingers metacarpophalangeal toints wrists elbows ankle and kne's hav been

entreet d by this method

It is thought that the pr vedure will be especially valuable for the improvement of function of han Is crippl 1 by any of ile vari us affecti na clas el as arthritis deformans At the war tith capsule shoul i not be divided on the side of the convex segment as is the rule elsewhere but instead the two main accessory I gaments should be free from the ral us and ulas W. I. Bucst M.D.

Wolc tt W F: Regeneration of the S: 111 Membrane Followi & Typical Syn tect my E1 15 6 97

The author reports further experimental evi lence that there is regeneration of the synovial membrane f flowing synovectomy The experiments were per formed on dogs ranging in age from 2 or 3 months to several verrs Iwenty four kree joints were The splt p tella approach was operate I upon The synovial membrane of the anters r surfa e of the femur that from the anterior pouch I teral to the con liles and the infranatellar f t ad were removed The oper tion was follo ed by a moderate reaction with c mpl te return I fune tion to the n n inf cted joints after fourteen days I ollov ing the administrati n of lethal ether the

joints were examined at periods ranging from one t one hundred an leight days \ ray studies made after injections of sodium lodide into the car sule ho ed after ten days only a slight variation from the normal in size and contour I rimary a ound healing was the rule and fun tion vas normal in the logs allowed to live beyon I the fourth week. The joint fluid resumed its normal character after ten days

The macro copic changes in the just appeared to progress in an orderly manner and following the absorption of the clot and the development of fibrin the denude I areas were soon covered by a transfucent membrane From the third to the seventh las both fine and course adhesions were found The former were ab orbe ! in time but the latter I ersisted and were the direct cause of a saccul tion of the ur per part of the pouch into t lateral portions. In eleven cases fringes of fibrin verbung the articular surfaces. In about one h if of the cases there was minor cartilage absorption p obable lue to the trauma of the operation. Villus forma tion was noted in three of twenty-one joints ex

By the fourth week a small zone of ad pose t was made its appearance in the central area of the dense I brous pad which replace I the excited infrapatelly fat p i and a the i as extent d upward to the intercontylar notch. The adhesi as persists i

It the end of the fourth week the deeper fibro-I lasts which appeared in the form were shrink ne in size an I rap lly a suming the characteristics of normal fibr us to sue cells The s rface laser was smo th the cells being smoller and flattened re sembling more closely the tells of normal syno 7 1 membrane

At the hunfred and eighth lay the synowal memi ane was practically ind stingui h ble from

that of the norm I an mal

The changes note I prior to the fourth week were tho e of regeneration I the surgically exceed on out membrane Subsequently the changes I cell aging and maturity into mact t were th firous to se the phase of hyperpla ia having r paired the injury further cell gr wth was checked

These findings and cate that synot al membrane reg nerates after typical synovectomy and the re generate I pouch cl sely simulates the normal in size contour histol gical structure and function

A BERT C LOT GUY M D

Gallock J H: The R p ! Processes in Nou ds of lend n and in lend n Graft A 5 t 19 7 1

By experiments on dogs Carlock attempted to fetermi e when it is safe to begin m ti n i ll wi g t northat hy The tendon mechanism in the dog most closely resembling that of man is found in the anterior tibial group Therefore this region was used in the experiments. In one group of experiments the ten ions were d vide I and resutured by the Bunnell technique and the tendon she th carefully repaired. The subcutaneous t saues a d skin were then closed and the leg was immobilized in plaster of lans in another group of experiments the tendon i as e po ed a portion about 2 cm in length was excised and a free t adon graft taken from the other hand leg was inserted into the defect a d sutured The wound was then closed and the limb immobilized as in the other group

Garl ck concludes that it is safe to institute active riotion on the fifth d y after operation and to remove retention apparatus on the eighteenth day

The author has applied one of these procedures in ten cases with very satisfactory results. After the operation the patient is kept in bed for the first six weeks. He i then allowed to sit up for one neek By the end of the seventh week he is able to walk without external support

LAUL & COLONNA M D

Dickson F D An Operation for Stabilizing Paralytic II ps J B & J IS re 027 L t In cases of instability of the hip joint due to

paraly is of the gluteus maximus and medius result ing from anterior poliomyelitis Dickson transplants the tensor fascine femoris to the posterior superior nine of the ilium. He has performed this operation during the past five years with uniformly succes ful

With the patient lying on one side the skin incision is made from the anterior superior spine of the shum posteriorly along the crest of the ilium to the posterior superior spine. Anteriorly it is prolonged downward onto the thigh for a distance of 4 in and passed along the inner border of the tensor fasciæ femoris (lata) The skin and subcutaneous fat are then reflected to expose the fascia covering the tensor fascur femoris and the gluteus medius and maximus

In the next step the tensor fascue femoris is senarated from the sartorius and rectus femoris anteriorly for a d tance of 4 in and from the gluteus m dius for a distance of a in posteriorly care being

taken not to moure the nerve supply

The tensor fascue femoris is then freed from its origin at the crest of the ilium by chiseling off a shell of bone. The gluteus medius is lifted up, and the severe i inscrison of the tensor fasciæ femoris (lata) is passed beneath it. The transplanted muscle

shoul it ass as far posteriorly as possible

With the thigh strongly abducted the insertion of the tensor fasciæ femoris will reach the posterior superior spine or its neighborhood securely fastened by No 3 chromicized catgut to the crest of the thum or a band of fascia attached to the crest of the drum is turned up

The posterior edge of the tensor fasciæ femoris is firmly sutured as far posteriorly as possible to the under surface of the gluteus maximus If the muscle is di placed as far posteriorly as it should be it will pa s over the anterior half of the greater trochanter in its new position. In the closure of the wound all dead p ces are obliterated. After the operation the limb is put up in plaster in extreme abduction

liter three or four weeks the cast is removed and duly exercises are given. After from six to eight weeks the hmb is gradually allowed to come down from the abduction position and the patient allowed

to use the extremity

This op ration has been performed in cases in which the tensor fasciæ femoris had little or no power a well as in those in which it was not para hzed When paralysis is present voluntary exten sion is not obtained but the hip is stabilized

It is used to give stability to the joint in the fol

lowing conditions

Flexion contraction of the hip with paralyzed pluter In such cases it is sometimes advisable to perform a modified Soutter operation later

Relaxed hip joint which subluxates when

weight bearing is attempted

Luxation of the hip due to paralysis In such cases it is of value to hold the head of the femur in the acetabulum after reposition

NORMAN C BULLOCK M D

Hey Groves E W Some Contr butions to the Reconstru tive Surgery of the Hip B # J 5# # 1027 XI 486

This article deal exclusively with the author's experience in surgery of the hip joint following fracture of the femoral neck ankylosis and con

cenital and naralytic dislocation

After fracture of the femoral neck non union may follow because of (1) deficiency in the blood supply (2) poor apposition of the fragments (3) the interposition of the capsule or (4) an inhibitive influence of the synovial fluid As the separate ! head retains living cells and is capable of resuming active life it is not correct to say that it is dead If the fragments are not put closely in contact at once after the fracture the fresh surfaces soon become covered with capsule shreds and fibrous tissue which will prevent union. The part of the neck attached to the head rapidly becomes absorbed if it is not in contact with the distal fragment There is no periosteum or endosteum to form callus

which will bridge gaps as in shaft fractures The Whitman method has become alm3 t stand ard yet in many cases it fail to obtain bony union The failure is usually not appreciated until after

the tedium of confinement in the cast for three

A sure method of seruring apposition of the fragments is the open operation with the use of the bone peg A square peg 4/ in long and 34 in thick is driven into a round drill hole through the trochanter and the center of the femoral neck so that it crosses the line of fracture and penetrates the femoral head up to the articular surface. This is done through a Smith Petersen incision exposing the fragments to view The leg is held in overhead suspension with slight flexion of the hip and trac tion of 10 lbs After six weeks the patient walks with crutches and a caliper splint After six months th plint and crutches are discarded The bone peg is prepared in advance from beef bone and is just

as efficient as an autogenous graft If the proximal fragment is short or the case is of

long standing with atrophy of the neck it is better to dislocate the head without cutting the round ligament and put the peg in through the head first thus pegging the head to the neck

If this is done early before atrophy has occurred bony umon is assured and full function will be regained in six months

There are three guiles to the progress of the

I Accurate records of the leformit, made with the use of Young a tracing machine every six weeks 2 The yeight chirt. The weight is recorded

every month

3 koentgenogran's anter posters rand lateral made every four months As wen as muscle pasm has subsided active

exerci es are begun to devel p the extensor mu cles of the an ne an I shoul let girdle

Ambulatory treatment is begun gra hall after one or two year. Icpen is g upon the severity and frigress of the case. He patient wears the bivalve in jacket with stry is

In the author's opinion er es of tuberculois of the pine in childhool should never be treated as output nt cases Divin II Ix 1 mix MD

key J A Same Diagnostic Problems in the Hip in Early Life J im M is 1017 lx x 1 8

The evil tiers is of him enhinos in chill en is be of on the his re the full groot the phi sical and N ry command in the full groot make and N ry command in the full ground has a free 1 sql ratory arthrotomy for him as a free 1 sql ratory arthrotomy for him as a substitute of the tax as a six obseque and the patient his work been knowledged by concernative freatment his work been knowledged by the full ground in a state of the full ground in the

legg A T The Fnd Res Its of Coxa Plats
J Bo C J 15 f 1927 1 25

I egg reports the enf re ult of co a plana in a series of forts cases with a durat in of at least ten geats. He state that it is possible to prign 1 ate the ultimate change in stru ture and to some extent the function and a duffit at an enf) stage but in certain cises the end result is root obtained until the crit basil united with the shalt.

In previous reports two of the types of end results in coaxy in a were de crule; —the mushroom as i the cay rayes. In the mushroom type there is no markel atrophy or fragmentally in of the eyphysis may great too, thurger whereas in others it migrates wer lattle. In some cases the epiphysis may great too, thurger whereas in others it migrates were lattle. It leads no all all times roots in its limited when the ejiphysis it was marked migratin but if the e is very little tongent om it as the high may be for the roots of t

The Cast hype abox marked vari thou in rath this yas the experiment and net and the fragment tion of the epiphyseal bone center and marked shortening and r un in so flo the upper male of the net. In some asset the epiphysis see it to be oblitered. The ultimate il mutation of motion and sho tening of the leg are g nerally considerable usually from 10 in The duration of the pro et differs at o in the two groups. The changes the change of the ten of the two from the two from the changes of the two from the two from the changes of the two from the two from the two from the changes of the two from the two from the two from the changes of the two from the two from the changes of the two from the two from the two from the changes of the two from the changes of the two from the two from the two from the changes of the two from the tw

marked than those occurring in the other a d the process reaches the faul state sooner. Legg belie as that in the cap type the ultimate tage is not reached until the eyind sais I as until see at about the eighteenth wear of age.

In the cases reviewed tell from wight bear ag in no way affected the entresult that is in those in which weight beauting was permitted the end results did not differ materially from those in which

no weight bearing was allowed Louis a MD

SURGERY OF THE BOYES JOINTS MUSCLES TENDOYS ETC

Willems C: Tie End Results of Immediate
Acti e Mobili ation 11 the Testm nt of
Joint Injuries Pacti er 1927 cz. 45

Willems reports the end results of immediate active mob lization of joint injuries in twenty cases including fifteen kene joint injuries and five rijurs of the chore. Fifteen were rot referced in five there was purified arthritis. The tree timent was ideocrable legist vers ago.

function has been maintained in all cases in some the original bone injury cannot now be detected in the roomtgenograms while in others especially those in which supportantly artificial occurred there has been a large product in of ostcophytes. However even in the latter mob tity of the jint is little affected and the musculature has been retained.

In the non infected cases the 1 subdity averages
3 per cent while in the infected cases it averages
12 per ce t Osteophytes are present in several of
the cases in wh the lisability is reported a nil

Fixen J Benezie, a MD

Wreden R R Oste plastic S prort of the Spine

The auth r believes that first he a ious pera tions for I it a d sease extern Is prort in the form of a rect or brace is no e sarv. In Ru a such e reet are o expen we that he has been led to seek a reme to by a new su g cal metho I which gives both immobilization and upport He learnbs trans ers aut port nd the met! d of obl q e sup port The principle I the proced res the trans ference f the trunk weight fr m the I seased v r tetra to the pelvis by tibial grafts. When the fourth a lifith lumbar vertebra a ed ser ed these graits are placed to now today's grootes made theer stofthe lift and fused with the spinal processes of the dies ell mb evert ben When the dis as in I es th last t od isal or the fist three I mb t vertebre a Z shaped incis n is mate over the affecte i area an i after a groove ha be n made : the c est of the I the spinal processe are reflected do awa d and the tib I grafts are ins rt i unt ! they cross beneath the spin I proce a f rm ag a

aupport

the disappearance of all swelling which was usually between the seventh and tenth days after the operation Every day the thumb crews on the ex tension pie es were turned until 2 in of lengthening had been obtained care being taken to maintain the proper apposition and alignment of the frag ments

Union occurred in from eight to ten weeks after which a plaster mold including the foot leg and

thich was applied In the six cases so treated the result was a failure in one. In the remaining fi e cases the lengthening obtained ranged from 1 to 1,8 in In none of the cales was there any evidence of nerve or circula REPOLPH S RE CH M D tory d sturbance

FRACTURES AND DISLOCATIONS

Langworthy M Var ous Fractures Practical Notes on Their T eatment \ that Med IO 7 YX

The theory that reduction should be delayed until the subsidence of swelling should be abandoned Nothing is gained by such delay either in facility

of reduction or promptness of union

In compound fractures the soft tissue wound and the fracture must be considered as two separate problems Reduction should be accomplished early and fixation secured permanently The question of drainage may then rece ve attention. No fixed rule can be laid down Some slight puncture wounds may result in gas infection while wide lacerations may be sutured to ht and close by first intention Complete losure after thorough debridement with the sc ssor gives primary healing in many cases

The method of choice in reduction is manipulation with the least possible trauma under general angs thesia and fixation in a cast or rigid splint. The pext best 1 adhesive traction and the third best

cal per direct extension

Chronic disability following compression fracture of the spine is due usually to inefficient treatment or the stopping of treatment too soon. Often the di gnosis is not made until several neeks after the injury either because of failure to make an \ ray examination or limitation of the roentgenograms to the antero posterior view. If only one view of the spine is made the lateral view is better It must be borne in mind that this fracture can occur w th only slight injury

In late cases with symptoms an ankylosis opera tion should be done on the spine if the patient is young or a brace applied if the patient is elderly In fresh cases the patient should be kept on his ba k on a hyperextension frame for from six to eight neeks and then held with the spine hyper

extended in a plaster jacket for several needs longer In fractu es of the surgical neck of the humerus the most satisfactory method is reduction by manip ulation under general anxithmia and fixation in abduction in a cast As a rule the more completely the area can be abducted and externally rotated the

hetter the result Children remain in the cast for five or six weeks but in the cases of older persons motion must be begun in two or three weeks to pre sent stiffness. The arm should be held in an abduction splint and let down gradually

WILLIAM & CLARK M D

Handerson M S The Open Treatment of Frac tures Ill os lf J 1927 lt 31

flenderson reviews a series of cases covering five sears There were 270 cases of recent fracture and 187 of old fracture in the surgical group Open operation was performed in 123 (45 5 per cent) of the cases of recent fracture. The di tribution of the fractures is given in detail. The fractures most fre quently subjected to the open method vere frac tures of the radius and ulna combined and those of the humerus elbow tibia and fibula femur knee and ankle Those most often treated by the closed method were fractures of the wrist band foot clavicle and hip

In general delay in reduction is responsible for more faulty settings than any other factor Im mediately after the fracture particularly if the patient is anæsthetized and relaxed the end of hopes can usually be freed from the muscle and properly engaged so that if proper fixation is provided the fracture site is in condition for the forma tion of healing callus Fixation 1 essential it may he provided in many ways and should be as absolute as possible for the time it is required Traction is probably the greatest single aid to the reduction of fractures and may often be continued after reduc tion thereby aiding fixation

Whenever possible a fracture should be reduced hy the closed method In the series of cases reviewed many of the patients treated by the open method were seen late. This was regrettable because if callus is interfered with during its formation the process of ossification may be slow in re establishing itself All of the soft parts were swollen blood clots were undergoing organization and there was a tend ency toward the formation of oft callus Under such conditions an open operation is generally necessary On the other hand when a fracture is reduced at once chiefly by traction and with minimal trauma very little swelling ensues because anatomical reposition restores the normal tension of the muscles and blood vessels and prevents oozing with the formation of a hamatoma

The statistics reported do not clearly express the author's views on the relative ments of the open and closed methods Some of the cases of fracture were referred because delay in the primary reduction which in many instances was unavoidable had re sulted in unsatisfactory setting. The time favorable for the closed method had passed the time for the open method had arrived and operation was necessary

Too free use of metal whether in the form of plates screws or nails has been justly condemned Beef bone screws and plates are being used more

In cases of long standing the best procedure is the reconstructive operation device by Whitman in which the loose head is removed and the stump of the neck placed in the acttal thum after the trochanter has been cut off an I trang lante I down

on the shaft Butteral ankylosis of the h ps is a absolute in dication for arthroplasty of one at ly It is best to cut the capsule far up around the aretabulum. This serves two purposes it release the perjarticular ti sues alich may subsequently present motion an I it furnishes a long flin which may be used to cover the fre h surface of the neck after removal of the heal In the authors hands the Murphy m thod for arthroplasty of the lip has always given poor results. It is a long severe operation f llowed by such ten ferness that motion cannot be begun until two late to obtain a suffici nt range of move ment to justify the procedure A better procedure consists in removing the head and thereby obtaining a smaller stume to nut in the acetabulum thus insuring earlier an i wider motion A ro in I headed ivory nul may serve as an artificial and when liven into the neck an I male to fit seet Raer' b well membrane of chromi ized tigs bl y

recommende i In congenital is location of the hit, efore the fourth year of age open operation of the aids un necessary as the manipulative metal, all give goal results in most cases. The only the cost between the contricted capsule. It is bit arously imposs ble to push the head of the f mur meds mag s in in diameter through the co stricte I lum n of the car sule which is about in in diameter he capsule is completely torn or is crumpled up betwe a

the he d and the socket

In older children open operation is often neces When the capsule is cut longitudinally and the socket i expose! It may be found that the latter is too shallow to hold the head. One of three things may be then done The hip may be put up in atteme abduction dependence being placed on the pretion to hold the head in the acetabulum n I upon the subsequent weight I earing to deer en the socket. The socket may be deer eved by burn g it out This lestroys the cartilage and may result in ankylo is The socket may be deepened by the formation of a shell on the upper rim by turning lown a hone flap from the thum. As this gives a rathe meager narrow shelf the author has tried I istening a previously shaped from shelf above the a etal ulum Ly bone screws This sometimes acts a a bulky f re gn body. More recently the thum than method has been improved to give wider shelf and is n w employed as a rule

To keep the heal from adhering to the socket after the latter has been usepened by burning the a thor cuts the caps le aroun! the rim of the acetabulum an! folls it over the hea! He then utures it in this posit on an I pas several | gatures from ov r the pelvic tim through the certer of the acetabulum and ties them to the capsule which cov

ers the head. This serves to hold the head deep in the socket answering the purpose of a round bigament

In adults with unilateral congenital di location permanent shortening of all muscles and deformits of the I moral hea I no attempt shoul i be made at reduction Instead it is best to lo a simple sub trochanteric osteoton; and apply a cast with the limb in abduction On solid feats a of the o test oms the weight bearing line is improved so the the pelvis instead of being slung from the I mo al head rests more above it and nalking ea er I cases of bilateral de locat on in the a fult the auth t re luces one side first by taking ut a se tion of the shaft so that the head c n be brought do n to the acet bulum. The socket is thin deepened a lithe head place lin it Later if de r d the osteot my is done on the other side

Foll wing infantile paralysis the gluteal mu cl s may be two weak to abduct the hip. The patient without gluteal po er must be d pen i nt upon crutches is a substitute for the gluteni the author tran plant the ili tibial ban I of the fas ia lata. This muscle is exposed by a long lateral in cision cut from its insertion ne r the condyle strippe I up to the trochanter p seed through a tunnel in the vastus externus muscle behind the trochanter and then upward along the bne of the gluteal subcutaneou ly and out through a second in , ion in the loner lumbar region. Thro h the second inci ion the erector spina mu cle is exposed andlys divided from its on in f r about fall of its thickness The iliotibial band is then securely suture I to this half of the erect r pinz. The trans planted muscle then forms a loop around the great trochanter and its contraction will abu ct th WIL WALLAKMD thigh

Abbott L C The Operati e I ngth ni g f the Tibla and Fibula J B EJ 15 1 97 5

I to ouraged b the results obtat ed by Putti in the operative le gibening of the femur Abbott empl) ed the same pr i ple in lengthen ng both benes of the leg will had bee sh riened by poliomyel tis \ Thomas leg splint havin be slipped over the leg the tchilles to ! n as lengthe ed accordi g to II kes ethod and the fil ula divided bliquely it the junctu e if the middle an i lo e third Ste nm n p ns ver then in erted at the upper and I r ends of the sh It of the tib . The m dille th rd I th 1 b e posed and a Ush pel ost tm ppro mately 4 in in length v don tth point Ih st ma pins vere tel by rev that piece vhehi turn ve e hellt po it it tal bers tia hel to the lateral b rs I the Ih as split and the to t was maintain d in g 1 po it on by means of a

foot supp rt After the complet on of the re t the Thomas splint was elevate fa di el to the end f the be The dra n wa remo ed ft rf tv ght h urs but no attempt w s made to | gthen the | g unt l'aiter

extension method uch as tho e used in fractures of the shaft are sati factors

Fractures of the femoral neck must be treated on entirely different lines. Ordinary extension methods are u el ss. The method of wide abduction with f vation in plaster bould be adopted as a routine measure to peci I skill or operating facility is neces ary but an appreciation of the anatomy of the fracture and familiarity with plaster-of Paris tech moue are e sential. The majority of cases so treated result in firm bony union arrespective of the patient's age. The insertion of a bone graft to afford additional fixation may produce more good results but as the is a highly specialized operation it cannot be of general application

In ca. es of ununited fractures of the femoral neck operative treatment 1 advisable if the general con dition will permit The nature of the operation will depend upon the degree of ab orption of the neckand the condition of the articular surfaces Re freshening of the fractured surfaces, with or without the insertion of a hone graft is indicated when the antomy of the hip joint can be re tored. In other ca es reconstructive operations vill re tere the stability to the joint and give relief from pain HIGH I CONFIL M D

Gilcreest F L Frictur's of tle Ankle Joint and of the Lower End of the Tibis and Fibula J im If iss 1027 | xx 1 223

The object of treatment should be to expelite complete recovers of function by (1) proper align ment of the main fragments of the tibia so that the flat bearing surfaces of the tibia and astragalus are horizontal and parallel and (2) the application of sufficient traction vith the foot at a right angle Peduction should be effected immediately under

general anasthesia and the limb immobilized in plaster extending well up on the thich. If this method proves ineffectual an open operation should be performed early When the patient begins to bear weight the

fracture should be protected for a few weeks FLVEN I BERLIEISER M D

an I more frequently as they are less irritating to tle bone than metal an l are entirely absorbe ! The rate of absorpts in varies with the bone metaboli m Adequate external as well as internal fixation must Sometimes a carefully performed le proviled operation in which the bones are brought into perfect apposition and a beef bone plate is well applied may be rendered a complete failure by inadequate postoperative fixation

Naffziger II C The Treatment of Fractures f the Spine with Cord Injury \ the it Med 1027 Ex 1 0

In the case of a patient I rought to the hospital with complete paraglegia following fracture of the spine one of the prollems to be con i lered is that of making him comfirtable and preventing bed sores It is remarkable his quickly in such cases a I vitalized area will devel to exten ive sloughling with the exposur of lare bene underneath To diminish the risk of such lesions the patient should

be r tee lon an air mattress

To prevent cystitis in paralysis of the bladder it seems more expe hent t let the blatter overfill even to the umbilious with the hope that sponts neous leakage will occur than to do a suprapubic cystotomy of to catheterize If catheterization cannot be avoided a small amount of antiseptic sh uld be injected after the bladder has been

ems tie i

With roentgenograms in both planes it may be possible to shaw d stortion of the spinal canal which will at I in the differentiation bet cen complete cord severance and cor i compression

If any results are t te of tained by surgical treatment in such cases it is necessary to decide rather early as to what is to be done in mal ex perum ats show that the or lema which folly s the primary injury reaches its maximum after from f ur to eight hours and that the superposition of this celema o er the original injury is a metimes re ponsil le for complete blocking. It therefore ap pears that exposure of the cord and rehel of the er lema by longitudinal section of the injured seg ments must be done within this time if the best r sults are to be expected

I comparison of the spinal fluid pressure above an I below the site of injury by spinal puncture and the use of the manometer may give informat on which will aid in the diagno is when the clinical symptoms are not suff ctently clear One manometer should be connected nith a neet'e in a lumbar nuncture an I the other with a reedle in the posterior esstern If the pressures are the same there is free circulat on of the p nal fluid without blocking

In the pe formance of a faminectoms the cord may appear normal on exposure but if the dura is opene i si ghair there may be an extru ion of tan colore i cord substan e indicating that the cord or per has been reduced to a pulp at that level Laminectomy is advisable when block is present The dura should b opened and when there is complete paraplegia a small incision shull b

ma le also in the posterior e lumns Lesions bel w the first lumber vertebra involve

the cau is equina and are in the category of pemph eral nerve lesions Early operate n in such cases is imperati e l'ecause regeneration can take place in these fibers if they are carefully approximated

it the level of the twelfth dorsal ve tebra a lesion may involve the nerve filaments whi h pass down from higher levels after emergence f on the cord proper but before emergence from the vertebral foramina Lyen when the cord is injured beyond repair at this level these nerve roots ah uld be repaired because they come from the uninjured part of the cord higher 1 p

When patients with cord lajuries are able to sit up they should not be treated as permanent invalids but should be encouraged to take up some occupation which the can do with their bands even though

they must stay in a wheel chair

WILLIAM & CLURE M.D. Hitzrot J M Fracture of the Femur 4 # J

5 1 197 The location of fractures of the femur and their treatment differ with the age of the patient From birth up to the twelfth year of age fractures of the shaft are common an I a e a ell treated by traction. Between the ages of 15 and 40 ears a good function al rather than a good anatomical result is the desideratum. In many cases tract in may be r l d upon but when the surgeon is expert pen reduction is to be preferre I in selected cases. After the age of 40 years operation should be res reed for except on 1 cases. In this age gr up fra tu es usually occur in the neck or trochanteric region and fixation in plaster is the ir atment of the e for fr chures of the neck of the femur abliction accordin to Whitman's techniqu halt be use !

WPB CAT MD

West W. k. Fractures of the Sh. ft of the Femur J tm M t 271 to 0

Fractures of the shift of the femur are generally being treated by the closed method with particul t attention to union length alignment apportion and the results g con litton of the adjacent joints

The method's employed are the use of Buck's extension Thomas splint Hodgen's splint and the plaster ast

West advocates the combined use f the plater spica and a thesive weight traction e pecially in fract res above the I er third and i children het een 6 and 18 ye rs of age

FLVE J BERKITEISE VI D

High S L The Te tment and Res its of Fractures of th Upper End of th Fem e in Adult (F cluding th Shaft) I & Ry S 3/ / Lond 0 7 44

Fractures of the upper end of the fem r excluding those f the neck proper un te readily Ordinary lymphocyte stimulated to overaction by different

biological chemical and physical agents The authors divide lesions of the lymphoid tissue into three main groups the inflammatory the neo

plastic and conditions occupying an intermediate position between these two

In acute and subacute lymphadenitis following coccus infections irradiation is probably second in importance to surgers. Only about 10 to 15 per cent of the skin unit dose is given Rays of a short wave length are used Rapid improvement and cure follow one treatment in about one third of the cases In the others the treatments are repeated at neekly intervals Rarely are more than three treatments required. To reduce the lymphic hyperplasia produced by long standing inflammatory processes (chronic lymphademtis) larger doses are necessary From 50 to 70 per cent of the slin unit dose is employed this is not repeated within six weeks The recession of the glands is slow but in no case has it been necessary to give more than two treat men s

In the treatment of tuberculous granulomata irradiation is preferable to all other methods. The dose is a small one (from 15 to 40 per cent) More than 40 per cent of the skin unit dose may be harmful Rays of medium wave length are used for the superficial glands and rays of short wave length

for the deep glands

The tubercle bacillus may cause also a hyper plastic lymphadenitis in which the proliferation is mainly of the reticulo endothelial cells. The histo logical structure in this condition is similar to that in Hodgkin's disease and in the mentgen treatment the same technique as that used for Hodgkin's disease is employed

The roentgen treatment of other chronic inflam mations of the lymph nodes such as actinomy cosis is based on the same principles as that of tuber

According to the radiosensiti ity the other lesions of the lymphoid tissue are divided into (1) prolifera tions of the lymphatic cell elements such as lym phatic leukamia pseudoleukamia leucosarcoma and lymphosarcoma and (2) proliferations of the reticulo endothelial cell elements such as Hodekin s disease Hodgkin's sarcoma and reticulum cell sar The division correspond to the histonathological distinctions. In the treatment of these conditions the irradiation should be as generalized as po sible and rays of high penetrability (short wave lengths) should be used. In the first group from 60 to 10 per cent of the skin unit dose will suffice thile in the second group the dose must be increased to 90 per cent

Eleven cases of acute lymphatic leukamia were treated but whatever the technique of exposure there was no evidence of any improvement. In chronic lymphatic leukæmia the treatment is in fluenced by the authors belief that chronic lym phatic leukamia is an involvement of the bone marrow by a lymphosarcomatous process (leuco

sarcoma) and that the spleen exerts some protective action. To stimulate the protective action small doses of roeptgen rays of long wave lengths are first used over the spleen These are followed after from six to eight weeks by intensive destructive irradiation of short wave lengths directed to the involved areas -the lymph glands abdominal organs and long bones-one area being treated a day with daily blood counts until a normal balance of lymphocytes is re-established Occasional stimulative irradiations over the spleen will then usually keep the patient comfortable and able to perform his work for years booner or later there develops a severe anamia which does not respond to treatment

The close relationship if not identity of pseudo leukæmia with chronic lymphatic leukæmia indicates the same method of treatment for both conditions Stimulative doses of itradiation over the spleen and destructive doses over the bone marrow are omitted because of the negative blood findings Irradiation (40 to 50 per cent of short wave length rays) is given to the lymphatic system and the abdominal organs

Whether a lymphosarcoma belongs to the localized or diffuse type is of only nathological interest. From the point of view of irradiation therapy they mu t be considered generalized. The irradiation is given over the entire lymphatic system and abdominal organs. As a rule a dose of 70 per cent of the skin unit dose will cause all of the tumors to disappear vithin ten days. Manifest lesions are re irradiated within three months. Life is prolonged but ap parently there are no cures

Large round cell sarcoma or reticulum cell sar coma resembles lympho sarcoma clinically but dif fers in its microscopic appearance and response to arradiation. It does not disappear within ten days and it requires a dose of oo per cent of the skin unit dose It has a greater tendency to recur than lymphosarcoma and its prognosis is less favorable

The authors believe that Hodgkin's disease and Hodgkin's sarcoma are separate and distinct en tities. The chief differential sign between these to o and other lymphoid tumors is that Hodgkin's dis ease and Hodgkin's sarcoma never show trans formation into anything resembling a typical mono phasic lymphatic proliferative process. Although in Hodgkin's disease there is an early stage of lymphatic hyperplasia during which the condition more radiosensiti e and a cure may be obtained proliferation of the reticulo-endothelial cells and their derivatives usually predominates when the patients present themselves for treatment. The greater resistance of these cases to irradiation makes the prognosis more grave and onl palliation can be expected Therefore smaller doses with less pene trating rays are indicated. The intensive roentgen therapy does not prolong the average duration of hie and may be followed by severe blood changes

Statistical results of the different methods of irradiation therapy are given which seem to favor the method employed by the authors

CHARLES II HEACOCK VI D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Let C. H. A. 4 Statt clear investigation into the Causati n of Pulmonary Embolism Foll wing Operatin Segested Predispening Cause Results of the Interesting Lauring Cause

This study of the cause of pulmonary emboli m is based on 205 ca es following operation and twel c cases following fracture of the lemur The fiolings indicate that the most important factors

favoring postoperative embols in are age an in cision through the anteri r abdominal wall and

fracture of the femur

I discent venous circulation requires free muscular
action and well bilanced restration both cost l
and disphragmatic. Measures should be directed
toward the restoration of these functions as soon
as possible after operation. Meark R 16. MD

Sattler J. Aneurl in After a Gunst of Injury of the Fat chal History (An urysma ach Sch and Ann il caest na) G sept at 926 kt 932

The auth reports the case of a man 34 sears of see who suchired a gun hot wound elevan pears soon. The point of entired earlier of the builder was bein deal to a bein with entire the point of east in an Ibel with entire the point of east in sear 14 cm, long. A comminant of fracture of the ferrour has beside with 8 cm of shortening. C reporting to the course of it eartery, there can be left 6 cm bel. I dopt at 18 ingement a swelling with pulsation a thrill and 41 pearl 18 ingenerated with 8 cm and 18 ingenerated with 18 18 ingenerat

Sattler a sunses that an originally inpurious trau mater aneum in his been chinged into a true aneufam by the circulatory di turbances and proges in excellenting of the wall of the injuried artery. As the pattent has been able to curry on he may alway the control of the contr

Hare II A Wiring with Elect olysis in Soccular
Ancurl m J 4m Jl 1sz 1917 l 22 230

Har reports 1 ocases f ancursm of the thorace sorts which were treated by 1 mg and electroly as Their tense and the tense of the tense

BLOOD TRANSFUSION

Conver II Vi Centian Violet and Acri tol 1 in Letnici vus Anvemia J J R 197

Conner has been u ang gentian w let sometimes combaned with acts joidt in a erris of cases of period us anzima. In eighteen of the mile treat ment had been continued long enough to just conclusions as it its efficacy. In all the treatment was begun four eleven to set months before the was begun four eleven to set months before the treatment as contraction of the contract of the contraction of the contract of the contraction.

The rethod of administration is described. The solubility of gentian voice in the pre-nec of gestize or duoderal secretions was in estimated experimentally the dye was not precipitated. Other method of treatment were carried out at the same time the patient remained in he is and a suitable due to a pre-cribed but liver was not go en in large quantities.

The results which are pt on in tabular form and catch that most cases impro ement was mine tain 1 after the disnessal of the patient in most case in was marked and in owner at was trisk grade of the control of the co

LYMPH VESSELS AND GLANDS

Evans W. A. and Leucutta T. Roentge RAS T eatn e t of Lesions of the Lymphold Tissue tm J. h. If I 9 7 x 4

Lymphate elements and their derivant, aster etc. From five to strand from Tais trace of both the circulating elements and the st trace of both the circulating elements and the st that make up the hymphot feathers. Small does so the recentigen rase cause astimulatin n while large does case rapid destruction. Following elementation there have regerrated the indications for the to discretize the state of the

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Lusch F and Neumayer k. The Resorption of Calcium After Its Oral Adm nistration (Ueber de Resorpti o C knum bei peroraler Ver abre hu) B k m Zirck 19 6 km 333

In order to determise whether and under what conditions calcium is absorbed from the gastrometerical tract the authors carried out feeding experiments on carmora (cats and dogs) and a few human beings. In all cases the calcium content of the blood serum was first determined under famige conditions. A measured amount of calcium was then administered and determinations of the blood calcium were again made. The technique of de Waard was used.

In all of the experiments there was an increase in the calcium in the blood. The maximal increase was reached after from thirty to sixty minutes and the low point was reached after about seven hours

Mason F II The Pre Operat e Preparation of the Dabetic P tient with a D scussion of So Called Diabetic Gangrene C d M 1 J 9 7 3

Most diabetics who develop surgical complications peculiar to their diabetic state may be class used thou speculiar to their diabetic state may be class used in one of two groups. (1) young persons who fail to like up to a strict diettic refirme and (2) persons over 50 pears of age who have a low grade diabetic condition of at least several years stand ng which has never been considered setnous and those who break their det thereby allowing themselves to have a presistent hip pergly.cemia. Unfortunately the majority of the mings surgical complications develop in patients of the first type in Group's and in these the most important complication is gain at these the most important complications.

On the day of the operation the disbetic patient should ha e a good fund balance some glycogen reserve no hectous and an approvimately normal blood sugar Mason believes that immediately preceding the operation it is wise to administer an add tional 10 units of mulin

The anxishetic employed is of considerable importance. In Misons opiumo chloroform is to be avoided always and ether if possible. Vitrous out and oxygen or a local anxisted to is best Following ether anxisthesia in a case of diabetes 5 per ceat carbon dozude in oxygen or sir should be inhaled until by the increased pulmonary ventilation all of the either has been removed from the tissues

The postoperative complication of vomiting is e pecially to be guarded against. If nau ea persists

gastire lavage should be done before vomiting be gins. When comiting is once well established it causes rapid dehy dration converting a mild ketons into a evere one. The postoperative diet should be gauged according to the carbohy drate tollerance of the patient. At first it should be a fluid or a soft

It is the general opision today that the nature of the arterial alteration in diabetic gan rene is the same as that in arterio clerotic gangrene. Insulin per se, ill not alter the vascular change. By strict control of the diabetic state and daily attention to the local continuous a great deal can be accomplished and many limbs saved—lince the introduction of better results have been obtained.

IACOR S GROVE M D

MacLean II The Use of Insulin in Surgical Operations Proc Roy Soc W d Lond 927 T

The author gases a detailed account of the paysandogreal chemistry of across according to the work of \(\frac{1}{2}\) and special chemistry of across as condition that must be combated in patients coming to operation. The chief condutions leading to the development of \(\frac{1}{2}\) consistent of across a structure analystic and surgeral shock. In a normal person the ketone bodies are successfully broken down duting metaboli in whereas in the condutions mentioned they are broken down with difficulty. When the metabolism is sourced ory butyric acid and diacetic either stored or sunnite!

The diabetic patient should not be started before operation to render him sugar free since during the p ocess of starvation the e is a depletion of the glyco en reserve in the liver and tissues which favors Letosis The degree of Letosis is determined by the presence of acetone in the urine. In the preoperative treatment insulin should be given until the urine is free from Letone bodies It may be neces ary to give additional sugar to prevent in ulin reactions The diet is of less importance so long as the patient receives enough sugar to keep up the glycogen reserve and enough insulin to control the Letosis After operation Letosis develops more rapidly and insulin must be pushed and sugar given either by rectum or intravenously until the urine remains free f om Letone bodies

In the al ence of diabetes a considerable degree of ketosis may be caused by anasthesis surgical shock and pre-operative starnation. Fetosis may be mistaken for surgical shock. In experiments upon himself Goldhatt produced a ketosis after forty hours of starvation. When he took 50 gm of 88

Im J Retg of 1 127 x 1 232 The lymt hobbistomata include a group of diseases of the lymphatic glands which resemble one another in many respects and have as their mo t prominent feature a generalized relatively painless a lenopathy Most important of these condition are Il xigkin's lymphoblastoma and the leukem as No effecti e treatment other than irra lustion has been found and even under irradiation these liseases has a tendency to progress to a fatal issue sooner or later Rah therapy however offers definite temporary rel ef f r a variable period an! has a marked effect on the adenopathy far illy melting away even large glan I masses which are viable palpable or is closed by roenigenography of the chest. However such to atg a ray treatm at seems inad quite to prevent the ultimate collar e from what appears to be the system c as contrasted with the localize !

element of the dive se According to the author's expenence roentgen ray treatment given at me hum voltage at least at first is a nally more efficaci us than that given at high roltage. All of the glan I arers of the holy whether involved or not should be irrad ated Desiar line treats the neck the me i a tinum the axilla and the inguinal and paravert bral slant groups through large portals of entry giving a sul en thema d e through each portal at 135 kv and using a 4 to 6 mm aluminum filter This treatment mu t usually be repeated from one to four times at int rvals of from three to s x weeks lepen i ng unon the patient condition Thereafter a clo e watch must be kept of the patient for evidence of recurrent

The glands show little or no ten lency to enlarge later when adequate treatment is erren from the out set but the patient eventuall succumbs apprently fr m involvement or exhaustion of the blood form In certain case with urgent symptoms such as

ing elements of the bone mare w

marked ly pacea or dysphagia from mechanical ob truction by large masses of enlarge) lymph no les in the neck or extreme med astinal aden p athy the n e of radium or high voltage roentgen rays mu t be resorted to norder to reheve a desper ate c ndition as rapilly as p sible Otherwise radium an I short wave length roentgen rays sh uld be reserved f r the late stages of the disc se after treatment with roentgen rays of med um wave length is no longer effective

The author cites four cases showing the reaction

at different stages of the disease

with chromic catgut. In each instance a tongue of omentum was brought into the wound between the muscles but beneath the united fascis. In a number of instances there was failure of union

recensing offers as an explanation for the postop cratice rupture of abdommal wounds the hypothem that it offer regular from madequate closure of the personneum. The forest the lose statices are not seen in section of the board forces used for expanding ved, e which forces that expanding ved, e which forces the part and presents proper union the through both parts and presents proper union. The through the parts and presents proper union the through the present present the present proper union. A rupture may then be precritated by the strain of vomiting or distention especially when the lasera is movined. Massa e addressons and many postoperative hermic are similarly evipulaned by ubcutaneous wound rupture which is more common than complete rupture.

If a assume that postoperative ruptures occur from within outward and not from withe t usuard and that the wedging of the omentium through a gap in the pentioned is sture line is an important factor is evident that the danger can be lessened by greater care in the closing of the pentionium. If interrupted sutures are u ed they should be placed very doe etgether. If a run is stuck is semployed the sponsing should be short and the stitch pulled tightly and frequently back-titched and locks.

EMIL C ROBITSHEN M D

Jalcowitz A and Sta linger F Postoperative
Susceptibility to Tetany (De p top rati e
Ktampfbe etischaft) 1 h f hl Ch 925 cxl 43

Since a number of factors may cause variations in the ion equilibrium of the body it is logical to assume that these act allo in association with the effects of surgical operations and thereby favor the occurre ce of postoperati e parathyroprival tetany The author attempted to solve the problem (1) by testing the irritability of the facial and ulnar nerve at first by both palvanic and faradic currents and later by the faradic current alone with the use of an indifferent electrode 10 cm square and a but ton shaped active electrode with interrupter and (2) by determining the hydrogen ion concentration of the urine by a simplification of the Michaelis method with indicators of a single color and the carbon-dioude combining power of the blood I lasma by the Robonyi method

Three types of tratishity were found The first type thich was noted as a rule following minor urgical operations showed no increase. It the second type the graph showed an irregularly with its highest point between the first and fourth days that the great such that the great such that the same as come of the second that the second tree equal to of some second in second in the could be second to the second in the second

In general a postoperati e increase in irritability occurs in 73 per cent of cases 87 5 per cent of which

are cases of operations near the thyroid region and 613 per cent cases of operations in other remone The corresponding figures of Melchor and Noth mann are 85 per cent and 22 to 30 per cent. The mental make up of the patient seem to be an important factor. The trittability decreases with age.

The carbon-dioxide combining power indicates in ca es of postoperative irritablity a marked increase in the all all reserve of the blood. The hydrogen ion concentration alone shows with considerable reg ulanty a more or less marked decrease in the by dro pen exponents and th refore an increase in the concentration on the first day follor ing the opera tion. This i surprising since becau e of the loss of blood narcosi vomiting and shock an increase in the alkalinity of the urine would be expected. Apnarently it is to be attributed to the patient's abstr nence from food and the dmini tration of morphine which tends to raise the hydrogen ion concentra tion On the basi of the carbon-dioude combining power the increased alkalimity of the unne may be attributed to the increased alkalimity of the This is indicated also by the increase of rentability of the neuromuscular apparatus in cases of increased alkalo ; of the blood Why the in crea ed irritability so often appears later than the increase in the hydrogen ion concentration is not known In five cases of the third type the Chvostek sign was positive

It appears probable from these studies that the occurrence of postoperature tetany is favored when to the general postoperature susceptibility to spasm there is added an injury to the parathyroid bodies. Therefore in the treatment the administration of acid is to be considered in addition to parathyroid transplantation. Volksiew (2)

logt E Intravenous Infusion of P tultrin Saline Solut on in the Treatment of Postoperative Intestinal Paralysis (De nt oses Hypophy si k ch al i fusion sur Behandlu g de post p rati en Darml chimu) M i n h n i d W chni hr 916 [ixui 509]

Since 1913 the author has u ed the method of treatment de cribed in this article in eighty-one cases of po top rative intestinal paralysis

Under eth) chloride or better local anasthesia to unare ten is exposed and under moderate status a blunt cannula is inserted with the a d of a sound The indison apparatus is completely freed of air in order that the fluid will flow out in a continuous stream. The container or elis made like a thermos bottle so that the fluid will remain viam. After the introduction of the needle from 50 to 100 cf of on ornal saline solution is permitted to flow out first and then flour or the ampoules of pituitin are added averaging is com of the latter to 500 ccm of the saline olution. Throughout the infusion the patients pulse respiration appearance and condition are closely observed.

In favorable cases the skin becomes pale and the features pinched the eyes protrude the pulse sugar the ketosis cleared up in an hour On another occasion when he took 20 gm of sodium bicarbonate instead of sugar the ketosis lasted eight hours Later he tried 20 units of insulin with 50 gm of glucose but this did not hasten the disappearance of

the Leto is

From the e observations it appears that the treatment for ketosis in a non diabetic patient should be the administration of sugar In cases of vomiting ketosis develops rather quickly and should be treated by the administrati n of plucose intravenously or by rectum. It is possible however that when ketosis is encountered in the absence of diabetes insulin may hely if the acidosis does not clear up

In conclusion the author states that the diabetic patient who must undergo a surgical operation has nearly as good a chance as the non dabetic nationt if ketosi is prevented by the judici us use of insulin

correlated with the diet

In the discussion of this report Carlton called attention to the value of blood transfusion in the acidosis of infants. He prefers to give glucose intravenously rather than by rectum As he has obtained good res 'ts with glucose in the toxemia of acute peritoritis and severe burns he believes that such toxamias may be due to acido is

Exans discus ed the rise in the blood sugar under anasthesia saying that in some of his e periments he found that ether caused a sharp rise to about o 18 mgm per cent and chloroform a more gradual

rise to bout o 14 mgm per cent

LARRENCE said that he avoids chloroform on account of its touc effect on the h er cells. He has found that ether and nitrous oxide oxygen have as an immediate effect an 1 crease in the blood sugar and as an after effect a decrease in the carbohy drate tolerance and an increase in the irralin requirement In closing the discussion the author stated that

in his opinion the interference in oxidation during anasthesia is the cause of the rise in the blood sugar In many cases of toxamia there is an ac dosis in the sense of a d crease 1 the sodium bicarbonate content of the blood plasma but a ketosis is not necessarily present unless there is very marked debility or a metabolic d sturbance J EDWIN KIRKPATRICK M D

Ca e J T Physioth rapy in the Postoperati e
Managem nt of Su g cal Cases B ii Baill
Cr & S & C & II P Cl Battl C & M h ga 027 XXI 46

Case discusses var ous physiotherapeutic methods which he states contribute to the comfort of patients who have been operated upon including those who have been subjected to thorac c abdominal and

pelvic operations

The application of cold compresses over the chest during the operation lessons the amount of an æsthetic inhaled and enhances the efficiency of the le sened amount by producing deeper breathing and thereby increasing the volume of tidal air The colon cluster serves the two fold purpose of (1) distending the rectum and lower colon filling the true pelvis and preventing the entry into it of loops of small bowel which m ght otherwise be crowded down and become adherent and (2) into lucing

3 or 4 pts of fluid for absorption As soon as the patient has been ret rued to bed heat should be applied with a blanket a run out of hot water I rge f me stations the electric thermo phore blanket or a rad ant heat device As soon as the skin is well warmed a cold tonel rub or mit ten frict in should be quickly applied to the entile surface of the body in a covered by the wound dress ing This improves v scular tension and stimulates contraction of the peripheral blood vessels thus combatin shock. The application of heat over the wound by means of the photophore or the bot water bag or hot sandbag laid a ainst the parts ne r the wound alleviates pain and allays restlessness Irritabil ty and sleeplessness have y elded to the application of a fomentation over the spine to radiant heat and even to bot foot bath Bobly vigor may be improved by the cold mitten friction with the use of cool rather than old water

In the treatment of postoperative colonic stasis various hydriatic an i massage me sures are of value Nausea may be effectively controlled in some cases by the application of a hot water bag over the epigastrium and a mo st girdle D athermic applica tions over the operative held as soon as the wound has healed are said to promote more rapid healing and provide earlier freedom from stiff ess and distress in the region of the incision. The sun bath or some substitute for it is another valuable adjunct Simple bed exercises such as deep breathing flexion of the fingers and toe increased gradually to include the arm and leg arm raising leg raising turning in bed etc combat pulmonary stas s los of vascular tone muscular weakness and inte tinal stasis To patients confined to bed for a long time automatic exe cise is given by lectrical stimulation of the larger groups of muscles

The author does not minimize the value of such measures as blood transfusion the inf ion of s l e solut on the administration of sedative and stimu I ting deu s etc but offers the methods described as adjuncts in a therapeut c régime devised to give the patient the greate t possible comfort

JACON M MORA MD

Feeman L Th Cau e of Po toperati e Rupture of Abdomin I In isions Arch St g 927

He e ofore the postoperati e ruptu e of abdom inal incisons has usu lly been attributed to the giving way of the sutures unusual stra as infection of the wound failure of the healing proc as fore d position age disease etc) or the formation of a hamatoma

In e periments on dogs conducted and r the di rection of Mills fifteen laparotomies were done and the incisious closed in the usual manner in layers

ANÆSTHESIA

cain 1 t - 1 1 192 138

Harm B H The Pr parallon of the Dental
latient for Nitrou Guide-Or gen Anarchesia
with Special Refer nee to the Pre Operative
the of Operation of the Control (1988)

Ue of Orange Juice far - 1 al 193 vi

(len at the University of Icwa 1 5-1 1 or 14
lick rd R J The Administration of Fti ylene
Oxygen Amerikesia 1 2 4 for 31 tt

District believes that nitr us onlife and ongen combined with magnesium sulfihate in riphine and nicases which are the response of the last protection to

deleters sus effects from the preliminary medication. It gives greater relaxation and les ens part perative.

pain

Hanns believes that m at rationts before opera

tion are to some degree act folic and that a large percentage of cases of p stoperative names and lepters in are lucily action. He has found that the free perative a limit stration of orange juster a good presentive. I raises

Ac 55 states that chkreform oxygen i as safe as any anysthetic when a lmini tere lly a tr inclan

asibetist and is better than other so fir as partice att e complications pneum mia not it gastric it tress etc. are concerned

lickani states that ethalene oxigen and thesia is suite it all kin is of peratuse with (yar is an leacit ment are absent Asethalene leaglo ise it mu tin the use lingrammity ta flame craparks

Sweet Law Min

becomes fuller and the blood pressure increases but all of these phenomena soon of spear. However, if there is a see eof construction in the cheef of pincer or retching the rulession mu. Let stoppe to continue to be seen minutes after the fest vacamotor refers to sever minutes after the fest vacamotor refers to several the contract of the contr

When the va om for reaction lies not occur promptly one or to a more ampoules of patieties are a lided to the solution and I possibly a total of

eight ampoules have I cen adde I

When peristylas falls to occur even after gentle massive and then plection of heit the intr fuet on of a well lubri ate! rectal tube may prove effective When th's fulls the author repeats the pituition in fusion after a periol of twelve hours although with rech repetit in the danger is error greatly increased undituted pituition is not reflected and the full provided properties are not reflected as not selder the fulls of the full provided as of the full pro

In persion it the h at measure is gastic lange at the end of which 2 tal lesponifuls of castor oil are left in the stomach. When the patient has recovered from the procedure the infu ion treatment is given. When after improvement there is a re-

tape the procedure may be repeated twice with

As a accompaning phenomenon rigor is no caue for a pessimutic proposes. The author has never known of the occurrence of thrombo or embolsum is such as Success foil re ults with the method rule out mechan cal obstruction of the inte time. The primiting works the alse alm but its a tion is I ceal limited in the blood and several selection of the companion of the companion of the electrication is beloed by the sweating. Digital's and insulum may also be used.

This method was u el when with the u unl methods there had been no bowel movement for three or four days after ope at on It is noteworthy that all lanarotomies were performed with lumbar anasth sia and except in those for carcinoma th re was no drainage of the pouch of Douglas Proc toolysis and heat to the abdomen were used fre quently On the second day enemas of cam mile tex or soap an I senna solution or pos 11y also of milk and mola ses ol enemas or high colonic flushings with the addition of turpentine to the selution were given Breathing exercises and changes of po its in help the action of glycerin enemas The rectal tube sennatin peristaltin phys st gmin and pituitrin injections m + be eff ca ious Wien all su h measures fail the metho i described should be tried as there are practically no ontra in lications to it and spe ial care is necessary only in the presence of hea t and vascul r cha g s

Of eighty eight patients whose condition was very serious the li es of eight en vere saved. Several reports in urgi al job nals show the val e of the method. Bi (G)

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

kellogg J II: Biological Antisepsis 4m I S 1 1921 | 249 B il Ball C et S I & H P CI B til Crek M luga 1927 xm t

The author defines boological antisspans as the substitution of harmless protective bacteria for Fernicious pathogenic organisms. This is accomplible to the pulpiding suitable carbohydrate to the exposed adjected sudreces and is based on the fact that acidizine bacteria possess the unusual poperty that acidizine bacteria possess the unusual poperty acidity incompatible with the do of a degree of security incompatible with the development of all other known bacteria.

The effects are two fold first the concentrate highly slouble carbohydrate can es an outflow of serum or lymph from the denuded it sure second the carbohydrates applied render impossible the development of putrefactive or pathogenes species of buctern and I being non tout do not in the least interfere with natural bealing processes. kellogs summarizes as follows.

r Biological antisepsis is the natural method of

combating sepsis

2 Its underlying pri ciple is prophylaxis—the prevention of the fevelopment of putrelactice a lipathogenic organisms by the maintena ce of a vigorous growth of aciduric organisms.

3 It has been demonstrated by bacter ological experts that certain carboby drates render awalted in at 1 in creating and maintaining the con libers most favorable for the defence of the organism from

pathog nic b cterra

A the best carlobydrates f r this purpo e are lacto e and le trin so bl nd d as to make a smoo h and addes e magma when water is added in the right proportions. This combination makes a simple but most effective b logical and sept.

g Biological antisery is of equal value in internal and external conditions and has been used with su cess in off, as is dischi ging wou d and socies variouse ulters operation wound colositomy wounds pruntius vulves a dam procettiss and colis and skin and scalp affections. It has been foolised of vitue also in gynecological and object calpract ex. [2 cos W W z M D]

Bogg a R. H. Four Las s of Anthrax Treated with Scia o s Serum L. 1 92 1 435

The author reports four a es of anth an tre ted with Sclavor serum inject d subc taneously i to the loirs or on the gluter. The den the first car was society adily. The patient recovered

No unigery was contemplated as all of the pattern earcity will not be serum. The largest total done was 110 c cm. The se ex required a long time to heal over ome telly sithough no anthe state lineare peach. In localized lesson of inthia radical eartip thou of the pustule giver serulis more quickly but the serum is indicated in the intestinal and 1 c case.

How. A McKen srt 40 D.

Montgomery II Basal Squamous Cell Epithe Itoma Pr Staff 3l et g 3l a) Ch e March

The term basal squamous cell epithelioma is used to designate the transitional forms that occur letteren I sail cell an I squamous cell epitheliomata. These forms occur frequently, and their prognosis is more serious than that of basal cell epitheliomata. The origin of basal cell epitheliomata from the basal layer of the epitemis is as in to be generally accepted.

In its distribution and clinical appearance the lassi squamous cell epithelium as is summar to the lassi cell epithelium that in 60 per cent of the cases it is un listinguishable clinicalls and a biopsy is necessary for a positive disgnossic From 15 to 20 per cent of the growths disgnossic clinically as basal cell epithelium at all prove to be of the transitional type. The microscopic picture is characteristically in the processor of both basal cells and cells intermediately the the basal cells and have large higher nucles and imperfect intercellular bridges. Tattis head formation may occur

In two of fifteen cases of basal squamous cell petithelomata metastares leveloped in the submax ultary region and a previous diagnosis of metastatic lasal-cell epitheloma had been made In 6 ooo epithelomata Brolers found no basal cell types that had metasta used Therefore if metastassis occurs it is very rare 1 ractically all metastatic tumor reported as of the brasil cell types will grove

to be of the tran itional type

The trun tunnal types for not necessarily the result of ura latta therapy. They have been found more or less ral ores; tant and require wide surgaries well as from the shin. They represent a metal morphous of 1s I cell to squamous cell epithelioma. Dev may make they are startly as a system of the representation of the representa

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Ro enow F C and Nickel A C Treatment of Acute F llomyellits with I oliomyellits Anti atreptococcus Serum Results fr m 1921 to 1925 im J D Child q2 xt 27

Ro en w and 'lickel lescribe their methol of culturing and selecting the strins of streptococcus of rimmunizing the horse again a raute polomichits and their method of injecting the cultures into the animal

In the charcel cases revie of the serum was in ject i introduced i introduced introduced introduced introduced introduced introduced interest and interest intra punity. The

we ge and number of injects as were determined to the age of the patient the nature and duration of the very toms and the effects of a previous

injection. If the symptoms abated after the injection that subsequent recruisescence was considered to warned repetition of the injection. The dosage for various ages is given and the technique of administration described. In children it is wise to repeat the injection even when symptoms do not re appear. When in the cases reviewed paralysis appeared several days earlier and the serum in repeated do es had no effect upon it the injections were discontinued when the press cases.

The results in 1115 case up it which the Serum via the account of the control of the control of the used are control of the modelness of sease in which is an inch lone in the treated than in the control group especially in the patients via precived serum before or soon after the development of sught paralysis. The mortality rate and the incidence of resulting lighting in the control group were not abnormally high corresponding closely to those of untreated cases reported in the hterature.

The incidence of the more severe initial symp toms the average cell count and the incidence of initial bulbar types of the disease were somewhat higher in the treated than in the control group The age incidence was about the same in both eroups. The good effects of the serum occurred independently of spinal drainage. The results in the patients treated by others are in agreement with the authors results in this and previous studies as regard mortality rate the incidence of residual paralysis and bed i le impressions of the early good effects of the scrum The number and variety of the nationts treated are sufficient and the control observations are adequate to justify the conclusion that the poliomy elitis antistreptococcus serum is of value in acute anterior poliomyelitis

The serum used possessed the power of neutral izing the toxic material contained in cultures of the streptococcus as measured by intracutaneous intertion it diminished the infective power sittle of the streptococcus as measured by intracerebral intec tion and it cured rabbits inoculate I intravenously with the streptococcus properties which are not posses el by n rmal horse serum. Some of the batches of serum neutralized the virus si rift and protected monkeys against poliomyelitis in the forced experiment by intracerebral inoculation of virus Rabbits have been immunized against infra cerebral inoculation of the streptococcus by the methods used in the preparation of the serum in horses hence the curative action noted chinically would seem attributable to the specific antibodies contained in the serum and not to non specific or foreign protein effects

EXPERIMENTAL SURGERY

Bradford Sir J R The Debt of Med cine to the Experimental Method of Harrey La cel 1926

Harvey was one of the founders of modern experimental science especially physiology. He showed

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Bloodgood J C Bopsy in the Diagnosis of Malignancy South M J 1927 xx 3

In cases of small leasons and small tumors of the size complete radical ext ion should be the rule if it can be done without mutilation. The exe son should be done with the cautery and the area thoroughly cauterized with some form of actual cautery. The diathermy kine is not sufficient. An immediately made frozen section should be followed by the omplete operation if uncroscopic examina.

tion reveals malignancy

Small subepulermal subentaneous subfacean and intermuscular timors not including polariot thyroid or breast timors should be removed rankeally here per cent of wens of the scalp are mala, nant and their shelling out is always a dan getous procedure. Myzowa may simulate lipoma Without radical excision its recurrences have led to a fatal; sue Thirty three per cent of recurrent sarromata were apparently innocent fesions end cleated at the time of the first operation. Solid butsuits masqueraides as a malignant timor. If its recurrence of rankeaps were the continuous con

In lesson of the lower Jp where radical erat on of a a \ haped prece can be performed thopy a voice on excessary. In cases in which a mutulating operation must be done especially in those in which material \(\) \(\) \(\) \) \(\

In all early les ons of the laryng biopsy should be done an I laryngectomy performed at once if malig

nancy is found

There is not sufficient evidence to estimate whether busy yof ascround to be increase the danger of meta tasis. In the authors opin on boy we least dangerou, if it is performed under the boy we least dangerou if it is performed under the tunner tissue; exposed with the electric cautery and the piece removed with the autery or the knile. Immediate thermal cauterization of the wound follows in addition the wound is chemically cauterized; it is presented and follows in addition the wound is chemically cauterized; it is the piece carbolic and followed by alcohol and a yound is chemically cauterized; it is the piece carbolic and followed by alcohol and a young the piece is the same to be a special property and the same to be a special property as the same closed over it if the dagno is a delayed for several abours. In some case of bone lessons hoppy in sesential since in the early stages traumant and infectious ossily supernorities stages traumant and infectious ossily supernorities.

are difficult to differentiate from sarcoma and un necessary amputations may be prevented by im mediate froz a sections properly interprete! Bupay is not just fiable however when the preservat n of a functioning limb is imposs ble

In the diagnosis of sarcoma of bone the examina

tion of fresh unfixed tissue frozen and stained with polychrome methylene blue seems to be more cer tain than that of it sues fixed by boling in forma

lin and stained with hamatoxylin cosin

Whenever a perio teal or central b ne tumor i explored mysoma must be borne in muni. When a mysoma is found it should be cauterized with a plumber s soldering iron. It is easily recognized in the frozen section and is characterized gro sly by the hick tap of a like fluid encountered or in the resembliance to hyuline cartilage which cuts like resembliance to hyuline cartilage which cuts like

cheese as breast tunor bengal tes on will be bubblected to and all operate an and early make market will not be treated by a compilet operation and a compilet operation if an immediate diagnos a based on frozer sets as is made a part of the operating room procedure if an actual thermal and chemical cauternation is performed at the time of the biophy it should not disappear to be an actual thermal and chemical cauternation is performed at the time of the biophy it should not disappear provided the immediate complete and the provided of the immediate complete the provided of the beautiful provided the immediate complete the time of the beautiful provided the immediate complete the provided of the provided the pro

with the electric cantery as better than a more than the electric cantery as better than the complexity of the football of the electric services and colon. The perneal prostate(one) offer as better opportunity for obtaining being spec mens and for radical removal if cance 'present than the suprapulse operation in the abdomen biopsy is of value to differentiate the abdomen biopsy in the value of the cancel of the cancel of the value of val

should be subjected to biopsy.

In the disagons of tumors of the parotal jun!
b opsy has not been helpful. Recurrences are too
frequent. Radical removal should be performed
in the di giosis of tumors of the thyro I gland
biopsy is of doubtful value. Adenomas and cylor
of the thyroul gland sho lid be removed with a zone

of thyroid tissue

The auth renealeds that nesson into mal goant area without thermal or themsel catternation and a technique for the prevention of contamination of the wound with mal gain cells a suscential with danger and that the greater the interval of intervention that the greater the interval of intervention that the greater the interval of the two the the people of the malignant tumor or biopsy and its radical removal the greater the danger of the people of

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE—THE BOLD FACE FIGURES BY BRACKETS AT THE RIGHT OF A REFERENCE LYDICATE THE PAGE OF THIS ISSLE ON WHICH IN IB TRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

Fract es of the sk !! B \ CARTER Oh o State M J o 7 xx1 8
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that the science of medicine must be founded upon phy sology 1 rogress in the art of me licine re quires experiments and observation. Because of the complexity of a disease or of some phase of it the problems of d ser e are often very difficult When it a apparently similar cases react differently to the same treatment the cases are in reality not similar In typhoid the course of the condition as thought at first to be to weeks in some cases and four weeks in others but when the parity phoid brailus was solated it was foun I that the difference in the duration of the fever was due in part at least to a difference of organ ams Erroneous conclu sions are often attributable to the 1 rong premise When we can be sure of the fundamental laws of medicine we can come more nearly to correct de ductions from clinical and physiological investi-

Jackson's work in cerebral localization is an illu tration of the advance made by the careful of servations of a master clini ian Certain not probable knowl dge in regard to the facts of nature

is the end to be desire !

In the study of cardine phenomena the clinician s placery attoms were made accurat by the introduction and use of certain I boratory apparatus such as the polygraph and electrocard ogram. The advance of our kro le l c of a recular f brillation is lue to ex perimental metho is the disco ery of the condition having been made during experiments upon the beart to determine the origin of the heart beat

Romanes discovered the nature of heart muscle by experiments on the jelly fish His work as con tinue I an I venfed by Caskell The electrocardio gram has ma le it pos ible to i terpret the different phenomena of the heart beat a d is e pecially valuable as an instrument of research regar i ng the

fun lamental cau es of certain clinical phen mena Another striking illustration of the profound in fluence of a imple expermental method of inquiry in advancing our knowledge of the nature of heart beat and indirectly of all vital activities is affor le ! by Ringer's work on the effect of m nute quantities of calcium and potassium on the heart. Linger was a clinical physician who took up abstract problems of pure physiology then he was past mildle ag

In conclusion Bra for! states that Harvey's experimental method was of importance in laying the foundations of our conceptions of the nature of the processes at work in di ease an i la giving medic ne A scientific status as a branch of natural knowledge War Call House WD

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week to one year In all of the experiments the ca t lage preserved its specific structure. Various degener tive and regenerative processes occurred t th transplant Of considerable importance i the abits of the tran pla t was the nature of the ti sue in which the graft as placed The b st result nece bt med with transplants in the riu culature then followed those obtained with transplants ath subcutaneous tissues and fin lly thos obtained ith tran pla to in skull defects When the per hondrum was removed the regress: ch nges ere slight and the tability of the transpl at si creased

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International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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INTERNATIONAL ABSTRACT OF SURGERY

AUGUST, 1927

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Sachs E Fractures of the Skull Il iscons n 3f 1 19 7 \$ 1 6

Compound fractures of the skull with and without rupture of the dura should be treated by complete I bridement the arrest of hamorrhage and closure without drainage. The object in this type of fracture is to prevent infection. If infection occurs it i of ad antage to work through a lean skin field Simple depres ed fractures should be operated upon as soon as possible. In the presence of a noten tial scalp infection or evere shock operation may be delayed to obtain a clean operative field Eleva tion of these fractures will prevent the development of traumatic epilepsy

Intra ramal hamorrhage occurring rapidly gives the classical picture in which there is a luci linterval between the first brief period of unconsciousness and the leepening stupor followed by the development of paralysis or jacksonian convul ions. The site of the skull injury is not to be taken as guide to the sit of the hamorrhage a neurological examination is necessary. The pathological reflexes and paresi of the mu cles of one side of the body mean hamor rhage on the oppo ite side of the I rain A progres sive r se in the blood p essu e is diagnostic of in erea ng ham rrhage and an indication for immedi ate operation A subtemporal decompression should be line

Trese three groups of case in which operation is indicated onstitute onl a small percentage of the e sea of skull fracture. The to grouns in which operati n is rarely required constitute fully 50 per cert of the ca e

Contu ion and laceration of the brain and ceref ral re lema are b far the most frequent results of injury to the shull. The bra a becomes rapidly ordematous and the marked increase in intracranial pressure is fir the mot pa t due to the redema. These cases usually show ome neurological s gas pregularity of the pup is pathol go al retiezes a slow pulse and

pregular or Chevne Stokes respiration. In rare instances convulsions occur The blood pressure does not increase progressively unless there is an associated progres ite hamorrhage. The problem is to reduce the cerebral redema. The may be done in three ways (i) by shrinking the brain tissue (2) by removing fluid from the brain cavities or (3) It enlarging the cramal cavity. Of these three methods the first is the most effective. It i accompli hed by giving hypertonic fluids—33 per cent saturated salt solution or 50 per cent plucose solu tion-intravenously From 1 to 2 c cm should be given per minute until 60 c cm of the salt solution and from 20 to 10 c cm of the glucose solution has been administered Magnesium sulphate may be given by mouth or rectum

The removal of cerebrospinal fluid may be done by ventricular or lumbar puncture. The author ob jects strongly to lumbar puncture believing it to be a frequent cause of death from medullary paralysis

The third and the most infrequently used proce dure—the enlarging of the cranial espacity—is sub temporal decompression. The intracranial pressure must be reduced by ventrule puncture before the dura is opened or else the brain will protrude and rupture

Rupture of the arachnoid membrane often pre sents a picture similar to that of middle meningeal hemorrhage At operation the dura is tense with no evidence of hamorrhage and when it is in Lel a large amount of yellow and often blood stained cerebrospinal fluid spurts out under pressure. The intracramal pressure is at once reduced and the pa tient recovers

In the author's opinion the prognosis depends not so much on the location of the skull fracture as on the 1 jury to the intracramal contents. The more se ere the laceration and contusion of the brain the graver the prognosis

In the discussion of his report Sachs was asked con cerning decompression for convulsions He believes tha decompression should be done if repeated 110

EDITOR'S COMMENT

CACHS recommendation concerning the treatment of fracture of the skull (p 119) and Carter's review of 380 cases of skull fracture from the Cincinnati General Hospital (P 120) are timely contributions on an important subject The obvious difference in opinion as to the wisdom of performing lumbar puncture em phasizes the importance of the question and the necessity of determining as clearly as possible the conditions under which lumbar puncture may be performed with safety Some years ago LeCount and Apfelbach (J Am M Ass 1920 lxxiv 501 Int Abst Surg 1926 xxx 426) in a careful study of the autopsy findings in 504 cases of skull fracture pointed out that the most frequent change noted in patients dying from skull frac ture was traumatic cedema of the brain. Sachs statement that shrinking of the brain tissue with the aid of hypertonic solutions is the most effec tive method of reducing cerebral cedema and the resulting intracranial pressure suggests the wis dom of substituting this harmless procedure for one which is frequently fraught with danger

Vanous phases of gentto-urnary surg ry are emphasived in a number of exceptionally interesting abstracts in this month sissue. Access description of the technique of radium treatment of bla lider tumors (p. 172). Wilther's report of thesend re ultra 100 and Bartriges (p. 180) discussion of methods of treatment of malignance of the kidney (p. 180) discussion of methods of treatment of malignance of the kidney bladder prostate te tis and penis emphasize both the difficulties to the malignance in the treatment of cancer of the gentio-urnary tract and the increasingly hopeful incomes in creast treated early.

Randalls review of the progress made in prostatic surject during the past three decades is a well mented tribute to Freyer Joung and the many other gentle-manay surgeons who have helped to make prostatectomy a relatively safe procedure. The high incidence of epididy musts (23 per cent) in the cases reviewed and its prevention by preliminary ligation of the vas deferens is particularly stressed by the author Campbell's report of fitteen cases of torsion of the spermatic cord and his careful description of the pathology and presenting symptoms cm phasairs the necessity of recogning the pos-

subility of torsion in every case of acute pain and swelling involving the testis (p. 176). Bransch, analysis of the indications for surgical treations in certain cases of pelonephritis. (p. 186). Conser and Bumpus study of essential hamatum and its possible relationship to purpura hamorrhagica (p. 176). Helistrom serport of cases of hydronephrosis from abnormally placed runal vessel and his review of the vascular findings with reference to the kinden in fifty cases (p. 166) and Wession's discussion of the surgical anatomy of Buck's and Colles Jascas (p. 177) are a few of the important papers reviewed in the section of genito urmany surgery.

A number of other abstracts in this month s issue representing various fields of surgery de serve particular attention. Turner and Fraser's study of labyrinthitis based on 150 cases een during the course of 10 years at the Royal In tirmary at Edinburgh (p 127) and the symposium on external diseases of the ear presented by M Kenzie Grav and Ormerod (p. 125) reflect the admirable and painstaging nork that ha helped to go e the department of otology at Edinburgh its distinguished reputation Schlueter and Weidlein's experimental study of postoper ative lung abscess (p 1.0) emphasizes the im portance of blood borne infection in this condition and the relative infrequency of absces es due to aspiration of infected material

We le review of casarean operation in Detroit hospital (n. 150) Brodithead study of the symptoms treatment and results of accudental harmor hage during prognancy (n. 155) and Harri and Brown is bacteriological investigation of the contents of the uteris of thrust profile of casarean section (p. 150) concern subjects of especial interest to the obstetrical surgeon

Campbell's description of the technique em ploy of in the use of the onlay graft for ununited inactures (p. 185). How'es, 8 di cu, son on the surgical treatment of hartel p and cleft polate (p. 136). Sistran's 8 helpful suggestions on some problems in plastic surger (p. 167). Earl 18 recommendations concerning the frequently neglected conduction of fractured fingers (p. 187) and Gash. Handley Turner and Frankus discussions of the results of treatment of garnetic of the extremities (p. 134) are a few of many other abstracts, worth, of careful consideration.

problematical and life depends upon the surgeon s

judgment and skill

The chief objects in the treatment are to keep the intracranial pressure within normal limits to prevent immediate complications such as meningitis brain abscess etc and to prevent so far as possible the late effects of skull fracture such as paralisis

epileps) and mental changes

On the patient admission to the Cincinnati General Hospital he i subjected to a general and neurological estimation on 1-ray examination of the skull is made as soon as practicable a spinal puncture is the pressure reading (normal 7 to 10 cm of water) i done at once and a record of the pulse and respiration is made at twenty minute intervals In cases of compound fracture deprese of fracture and extradural hamorthage operation is done in mediately if the patients condition permits. For the redict of intervantal pressure the author terms

on lumbar puncture and decompression In 1927 Jackson advocated spinil puncture as a therapeutic and diagnostic aid in skull fractures Of 308 cases in which one or more pinal punctures were done ill effects characterized by symptoms of

medulars, compression were seen in only to a and in these there were la ge e tradural harmorrhages. The contra indictions are (1) a compound fracture with open dura or the copious discharge of cerebrospmid 1 if if moneer and (2) extradural harmorrhage. In case, with the former there is danger of meningitis and in cases with the latter the dan

ger of medullary ompression

The author clas thes the cases reviewed from the point of vie of p nal puncture. His conclu ons may be summarized as follo s.

I Sp nal pun ture is not dangerous if it is prop.

erly used

2 In elected cases it has great value as a

therapeuti mea u e and should displace decompression

3 It is a satisfactory indicator of intracranial

pressure and subsequent therapy

4 In cases with clear flu dof small amounts under high p t sure extradural hamorrhage is to be sus

pected
The subtemporal decompression described by
Cushing was used in cases in which repeated sp nal
puncture showed either ar ing or a continuously
h sh pressure those in which an extradural hemothings was su pected and those in which there was
things was su pected and those in which there was
things was su pected and those in which there was
persected in the state of the stat

One hundred and fourteen cases were operated upon as follows a bridement of extensive scalp wounds associated with linear fractures fare cases with no mortality subtemporal decompression eight three cases with a mortal port of the cases with a mortal with a mortal work of the cases with a mortal of a depressed fracture eighteen cases with a mortal it of 55 per cent elevation of a depressed fracture eighteen cases

pressed fracture combined with subtemporal decom pression eight cases with a mortality of 60 per cent The complications were few Meningitis occurred

The complications were few Meningitis occurr
in three cases and slight wound infection in two

The total mortality was 37 2 per cent. Of the 145 deaths nnety one (62 7 per cent) occurred during the first twelve hours. These occurred in the group of cases in which death results quickly regardless of the treatment. The remaining 295 deaths occurred in the groups of cases in which recovery usually results quickly and those in which the outcome is problematical. The mortality in the latter two groups was 18 1 per cent.

"Of forts he patients re examined at the end of three of four years only three were totally disabled by persutent severe mental changes. Residual symptoms resulting from local damage at the time of the injury such as deafness timitus loss of the seeses of smell and taste outlar palies and persist ent paralysis cannot be remedied. Other symptoms as has persustent headache duzaness mental changes and convulsions seem to be the result of prolonged interactional pressure. In the author's opinion, the interactional pressure in the author's opinion than the proposed of the proposed of the patients of the proposed of the patients of discharged of the patients of discharged.

Teachenor F R Intracran at Complications of Fracture of the Skull Involving the Frontal Sinus J A M 1 s 19 lxx 1 987

In the authors opinion fractures involving, the frontal sinus are the source of intracramal infection with greater frequency than all other fractures of the bull combined. When the inner wall of the sinus is fractured infection is almost inevitable because of the formation of a blood oft in the sinus and the superpose tiffection of the clot by material from the superpose of the formation of the clot by material from the business of the formation of the cloth of the superpose of the formation of

The operation can be done under local anasthesia. The small rubbet tube used for drainage is so placed that its lumen is directly over the lumen of the frontal duct leading, into the nasal cavity.

Involvement of the frontal sinu is manifested by epistaxis a constant sign and is shown by the \tag{Triovy F Sala \text{ ID}

EYE

Patton J M Contact Localization of Intra Ocular Foreign Bodies Am J Ophila 1927

Geometrical methods of loc Leation are satisfactor only when they are carried out by a rocatgen ologist intersted in the technique and in 60 pd patient who will maintain a constant fixation and who has an intra-octular foreign body that will throw a sufficient shadow. When it has been

jacksoman convulsions establish the s te of cortical irritation Another question asked him related to injury to the pituitary Sachs stated that in some of these cases polyuna develops and others symptoms of hypopituitarism are noted several years later

Carte B N Fractur sof the Skull Oh o Stat M

J EDWIN AREPATRICK M D

Carter reports upon 380 cases of fracture of the skull seen at the Cincinnati General Hosp tal in the period from 1922 to 1925 inclusive. He co relates the symptoms and the indications for treatment The signs may be divided into two main groups viz the signs of general ze i increased intracramal pressure and the localizing signs Early recognition of the former is essential in order that measures for the rel ef of the pressure may be instituted Localiz ing signs are of value in indicating the site at which

10 7 XXIII 128

the pressure should b relieved Much may be learned from the state of conscious ness. In the group of 106 patients who were con scious on their admission to the hospital the mor tal to as 7 2 per cent while in the group of 106 who were semiconscious it was 16 7 per cent and in the group of 177 who were unconscious for vari us periods of time it was 68 per cent. Maintenance of the level of consciousne 5 is favorable but a deepen ing coma is indicative of the necessity for relief of intra rantal pressure. The classical picture of im mediate uncons journess followed by a lucid interval and then a second loss of cons sousness should de mand immediate operation for the control of intra dural hæmorrhage

The temperature means little unless it is very high or low Both a very high and a very low temperature indicate a poor prognosis. In the group of 135 pa tients who had a normal temperature at the time of their admission to the hospital the mortality was 24 3 per cent Among the others who had a sub no mal temperature on admissi n it was 45 9 per cent

One of the most reli ble guides in the diagnosis and treatment is the pul e Progressive slowing of the pulse means a progressive increase in the intra cranial pressure A change in the p 1 e fro n a verv lon to a very ray id rate is usually a s gn of cerebral decompensat on Cases with pulse rates mounting to 120 or over have a very poor prognosis even if operation is done

A steadily sloting respiration with irregularities of depth is of importance as a s gn of increasing pressure In the 338 cases in hich the respirator) rate was over 12 per minute at the time of the pa tient a admission to the hospital the mort his was 32 8 per cent in the twenty cases with a rate o 12 or less per minute it i as 7 pe ce t and in se enty five cases with Cheyne Stokes respiration it was 80

per cent Blood pre sure changes are not accurate ind cators

of intracranial pressure Changes in the funds do not occur early enough to give informat on regarding increased pressure when such information is most needed but in late conditions of long sustained pressu e it is a valuable

The amount of intracranial damage is indicated by the changes in the pupils. In the cases reviewed in which the pupils were dilated and fixed at the time of the patient's admission to the hospital the mor tality was 100 per cent. In the 119 cases in which the pup is were unequal it was 50 per cent and in those with no pupillary change it was 6 per cent The outlook is better i hen a dilated pupil contracts to normal size but when a normal pupil dilates intradural or extradural hamorrhage is suggested

Hem plegia is an absolute and cation for operation and a contra indication to I mbar puncture In twenty nine cases with paralysis of the e trem ties

the mortality was 40 per cent

Reflex changes were found to be unrelable Absence of reflexes is a grave sign. In thirty-eight cases with reflex changes the mortality was 39 per cent in 316 cases without reflex changes it was 31 per cent and in thirty five cases without reflexes it

was 95 per cent Bleeding from the eas nose or mouth means extensive damage to the base of the skud. In mohto cases 1th bleed ng from the pose or mouth the mortality was 50 per cert in 137 with b eed ag f om the ear it was 37 per cent and in the remainder without bleeding it was so 8 per cent. Cleansing of the external ear with alcohol and the avo dance of irr gation and packs lowered the incidence of meningitis to thee cases Of the three cases in which brain substance was found in the external auditory meatus two were fatal

Th more serious types of fractures are the e of the b se of the skull and the less serious types those involving the vault. In the senes of c ses revewed there were seve ty six of fracture of the base with a mo tal ty of 39 8 per cent 160 of fracture of the base and vault ith a mortal ty of 50 6 per c at and rrz of mple fracture of the vault with a mortality of 13 3 per cent Compound fractures of the vault were treated by immediate operation. In the ele en cases of this type the mo tality was 56 per cent. A very serious type of fr cture was the compound comminuted depres ed fa tu e nith extensive corts al laceration a d a sociated basilar mjury In the twenty cases of this type the mo tahty was 60 per cent

In cases with extradural hamorrhage prompt early peration gives the patient his o h chance in the si teen case of the type in the series reviewed the mortality was 50 per cent. The diag ost c featu es are (1) the hist r. (2) hem plegia (3) d lation of o c pupil and (4) lear sp n I flud under

high pressure and of small amount

Ir m the point of view f tr atment cases of skull fra t e may be grouped as follows (1) those with a mild degre of injury n whi h recovery wall result (2) tho e with inju ies incompatible with life in theh death results quickly whate er treatment is given and (3) those in which the utcome is Gifford and neosalvarsan was used because of the theory advanced by Jones and Browning that so mpathetic ophthalmia has certain characteristics of protozola disease \rest.\rest.\rest.\rest.\rest.\rest.\rest.\rest.

Garretson W T and Cosgro e k W Ulceration of the Cornea Due to Bacillus Pyocyaneus J dm W is 1977 l usum 700

The authors report an epidemic of sixteen indistral cases of unfection of the cornea with baulius pocyaneus a condition that is comparatively rare "a three cases all originated in the same indistrial plart in which the case were in widely separated buildings it was assumed that the boric acid first and solution was the most probable ource of the indication Proper first all freatment was given but corneal where developed in fortune cases fulled to seek was corner to breast on macrosconically.

The primary treatm nt for the ulcers consisted in the u e of the actual cautery followed by cauterization with phenol neutralized in two or three second with a per cent alcohol irrigation of the eve with born and and the introduction into the conjunctial size of a mercury ontiment. In everal cases repetitions of this treatment were necessaries.

Subsequently boric ac I irrigation were git envery one or two hours and after each irrigation the me curv preparation was again introduced into the conjunctival sac. A 1 per cent olution of mer curvectoring 200 solution at 2 1 per cent solution of attorine were used three time a day. Cold comperses were apoliced confundously.

The ulcers' remained active for from three to easy day and the period of repair ranged from for 10 fifteen days. In three cases perforation of the corne occurred. In two complete heal resulted when the perforation was one ered by a computerval flap but in the third enucleation became necessary because of a persistent fistula.

The nen were able to return to work after from sixteen to eights five days. At the end of four months such of the sixteen patients had vision between o o and o jo. In four other cases large objects could be seen. In the remaining five cases vision valle, that no

The uthors believe that bacillus procyaneus may profuce in an abredy injured eye severe ulceration of the cornea and that when it is mixed with staphy lococcus albus or auteus more destruction results than when only the staphy lococcus in present Rad cal treatment; mecessary early to check the rapid spread of the ulcers. The resulting scars seem to be more tran parent than tho e due to rife tom to the transcription of the resulting scars of the profuse of the the resulting scars.

Giffo d S R nd Lucic L II Sympathetic U ltls Caused by the Virus of Herpes Simples Report of Experiments J 1m 4/ As 1927 lxx 1 465

In experiments on rabbits the authors moculated the useal tract and chasm with the yirus

of herpes simplex. The resulting pathological picture was quite similar to that seen in sympathetic ophthalma in man. The active virus could be demonstrated in the other eye by positive correal inoculations and in one case uvertis of both eyes was produced by inoculation from the second eve of an infected rabbit to the chairy pouch of a second rabbit. A further positive correal inoculation from the second eye of the namian has obtained show ing transmission of the virus through it ree genera trons from the first sympathizing eye.

Sections indicated that the neric and chissin were the routes of extension of the infection from one cu to the other! Inoculations from a chinical case of sympathetic ophthalma were negative. The theory that the cause of sympathetic ophthalma is affittable virus with neurotrophic properties similar to those of the herpes virus is given some support by this work.

Bedell A J. The Anterior Lens Capsule A Clinical and Pathological Study J 4m W Ass 1927 lax v 248

Bedell di cuses the congental inflanmatory and tramatuc changes occurring in the anterior lens capsule. Among the congential changes are upugliars membranes and certain types of pigmenta tion. Of the pathological charge the mot important is evuale on the capsule Frequench, in addition about vessels are found on the capsule in the capsule control of the capsule change in the capsule change in the capsule change in the capsule capsule change in the capsule are of inflammatory origin.

Trauma causes fold in the lens capsule localized cataracts involving the cap ule siderous and rings of deposit such as Vossus has described Following an indectomy normal in a thoritinal conditions of the zonular filters may be seen. When a congenitat coloboms of the involving the propose afford on interesting field for study. The uppeale afford on the uppeal of the uppeale afford in the uppeal of the uppeale afford in the uppeale

Smith H The Treatment of the Iris in Cataract Operations A ch Ophth 927 h 9

Smith tates that yrolapse of the ure does not core until siler the scleroconreal wound has become sufficiently eaded to permit the re-establishment of richa-ocular tensor. When the patient great was the orderedars it is then burst open and the in its swept into the wound with the great exaging aqueous. If it repraiss intact it is had looned out by the p essure of the aqueous from be hard. Therefore, Smith does not male a conjuntival diap nor suture the corneal want.

its technique in cataract extraction is as follows (1) 180 degrees co neoscieral section (2) tumbling lens (intracapsular extraction) and delivery of the lower end first (3) three pempheral indectomies 10

impossible to meet these requirements other methods have been employed Chief among these was the clamping of bits of metal into the conjunctiva As this method necessitated the wounding of the con junctiva the use of light mire rings was devised The author makes a 2 mm ring of No 26 soft silver suture wire and clamps it into the conjunctiva near the limbus below and at the horizontal margins VERGIL BESCOTT M D

Imre J Jr P otection of the Eyes by Reflecting Cl sses A h Ophth 19 7 1 1 141

The author discusses (1) the common colored glasses produced without any scientific basis and recommended for healthy as well as diseased eves (2) glasses which absorb the untraviolet rays and (3) glasses which absorb the infrared rays

Most of the modern protecting glasses are recom mended for absorption of ultraviolet rays Glasses that are equally good for either end of the visible pectrum are not in use Some of the C ookes glasses absorb the ultraviolet rays under 300 and also f om 35 to 37 per cent of the infrared rays. This how

ever is not satisfactory The generally known protecting gla ses are all faulty in that they fail to give protection against heat rays Through absorption a considerable quantity of the vis ble rays a e lengthened and changed to heat rays a decided accumulation of

heat being thereby produced behind the glas es It is very desirable that the superfluous and harm ful rays should be held back from the eyes not by absorption but by reflection Reflection is increased in glasses which have the characteristics of a mirror but let through the necessary quantity of visible

ravs It is known that very thin metallic layers are transparent but have quite an extraordinary reflect on ability Most of the rays which do not pass through the thin metal lavers are reflected

Using glas es having very thin layers (10-15 mil lionth m ll meter) of gold silver and platinum the author found by experimental n that nirared ultras olet and varying amounts of visible ays can he reflected

The wearing of such gla ses is ve y agr eable because there is no accumulation of heat behind them bmoked glasses allow the penet ation of heat a aves For very acute int a the author uses platinum glasses with a thickne s that reflects of per cent The 2 per cent of vis ble rays is quite sufficient because the eye becomes adapted to this qu ntity of light in ten or fifteen minutes

THOMAS D ALLE M D

Benedict W L Lackum W H on and Nokel
A A C Th Pel ic O gans as Foci of Infection in Inflamm tory D seas a of the Eye A ch Ophth 19 7 1 1 15 The relationsh p between diseases of the eve and

infects n about the r ots of teeth and n the tonsils is one of metastati unflammation th ough the trans

fer of organisms by the blood stream. It would seem that an analogous relationship ex sts between other organs of the body in which pathogeni bacteria may become indigenous without the production of local symptoms Many of the metastatic inflamma tions of the eye due to focal infection have been rel eved by the removal of infect ous processes or by the treatment of infected areas and the climinat on of bacterial infection

Scleritis and sclerosing keratitis frequently occur in the eyes of women at the beginning of the menstrual period. The periodical exacerbatio s of cleritis occur quite regularly beginning a day or tho before menstruation and lasting for from two to five days A remission occurs between the menstrual

periods In an attempt to reproduce di ease in the eves of animals by means of ce vical cultures six cultur s from the cervices of six patients with les ons of the e) e were injected into sixteen rabbits Five far per cent) of the animals developed macroscopic lesions of the eye To sho y that the pro tate all o harbors pathogenic o gamsms eighteen cultures from the pro tates of eighteen patients v th les ons of the eye were injected nto forty five rabbits. Thirteen

rabbits (20 per cent) developed macroscopi 1 o s f the eve Therefor of a total of s sty o e rabb ts injected with these twenty four st ains eighteen (to per cent) developed les ons of the eye in con trast to 7 per cent of 181 an mal njected with seventy nine strains obtained from the teeth to s is prostates and cervices I patients without

disease of the eyes In another series of experiments with cultures from the teeth tons is prostate and cervix 335 str as from patients having lesions other than those of the eye were injected int 708 animal Less than r per cent developed lesion of the ye When st ns from the prostates and cers ces of pat ents with lesions of the eve were used 30 per ent of the ammula injected developed lesions of the eye

Shahan W E Panophthalmitis E isc ration Sympatheti Ophthalmia 1 J Ophth 19 7

Shahan reports a case of perforating injury of the ciliary body with incomplete de truction of the contents of the globe by panophthalm to Eviscera tion was done fifteen days after the pury and sym pathetic ophthalmia devel ped 1 the other eye T enty days after the e see ation ymptoms of irritat n with gr dual loss of vision were noted The sh unken globe was enucleated and atr pin sodium's 1 ylate and neosalvarsan ere give eye gradually ecovered a d v s n and accommoda tion returned to no mal

Evisceration was done to avoid the poss blity of mening tis Atropi was in tiled not only be cau e of th use us but also because Adle a research seems to prove th t the permeability f the ve sel walls to p otern molec les s dim m hed after its use Salicyl tes we e gr en by mouth as ad oc ted by

The eye then remained straight but the uveits con tinued and an external frontal sinus operation was done The eye has since been quiet and has had more than the average visual acmt) but there is a large scotoma in the upper field Sauce, A DURE M D

Oct 1 S Cyst c Degeneration of the Retina 1m J Ophile 1927 35 2 61

Custic degeneration in the peripheral part of the r tina occurs most frequently in elderly person but may be found al o in children Histological examina tions of the eyes of fifteen th ldren to ging from newborn infants to children 4 years and 7 month of age revealed the condition in three all about a years old O h d.sagrees with the old theory that the condi t on 1 due to the close connection of the peripheral retina with the vitreous body and the influence of contracts n of the ilian muscle

SANCELA DURK MD

Clark E Coloboma at the Macula (Both Eyes) I ti I Ophick of 1 of Mann I C On Ce tain Abnormal Conditions of the Macul r Region Usually Clas ed as Col born ta R 1 I Ochth 1917 x 99

CLARKE reports to a ca es of coloboma of the mucula. In the fr to e the cond tion was bilateral and the eyes were markedly myopic. During the patient's infan i there was a horizontal ni starmu Later this disappeared Vision with correction was 6 24 ninear 11m as J 2 There were other con g nital I fect as ell In pite of the reduction in value the outsent was able to co through college and enjoyed vari us game includi g te nis In the sec ni case the right eve was normal but the left ws mill and ho ef a large cololoma at the

ma ala Arra n in the left eve with correction nas

onl hadmament Ma > In this so alle leolobomata of the macu la into the e gr ups (1) rigmented macular colo bomata (2) non p gmented colobomata and (2) m cular I bomata a sociate I with abnormalities of the blood ve al In the first which are the most comm n the horsocapillaris is absent hile normal retinal ves el a e a n v riving the tefect. The second type sho s a geath, white defect with an ectate ba e The etin I e sele stop abrupels at the margin La es of the thirl type show a blood tes I omi g from the floor of the defect either into the vitreous or na tomo ing with a branch of the centr I arters of the retina. Mann does not accept the i ew that the ech nges are developmental She

at birth an intra uterine choroiditis or a postnatal Herburn M I Batten R D Mann I C. Da en po t R C and Others Di cussion of Colo-bema of the Macula 1 x R y ver 11 d Lond

belie es they may be due to intra-ocular hamorrhage

SINCLE & DIER MD

macular d ea e

In this discus in it is evident that there is a slight d fleren e of pini n with regard to the etiology and

therefore the exact nature of coloboma Hepburn and Collins discussed the type whi h develops on a non inflammatory basis and is due to an arrest of development

The others grouped with this type the cases in which pigment is found in smaller or larger amounts and seemed to be unanimous in the opinion that the condition 1 always due to some irritative or inflam matory condition usually a fetal lesson and that who n it is prenatal there was some ectasis of the selera at that point Butler reported a ca e of coloboma with heaped up pigment in one eye and the other eye normal After eyeral years the normal eye developed tubercles in the macula The tubercles cleared up under treatment but later recurrences resulted in blin iness

THOMAS D ALLE M D

EAR

M Kenzie D Dermatitis of the External Meatus I la yag | & Oi | 927 | 149
Gray A II II Common infiammatory Affections of the Skin of the External Ear J Larine 1 &

Or l 19 xlu 155
Ormerod F C Intractable Forms of Dermatitis of the External Ea in Cases of Chronic Suppura ti e Otitis Media I La y [1 . Ol 1 19 7 xh

M KENZIE discusses furunculosis desquamative otitis externa otom) co is primary diphthena synhi litic condyloma and chronic eczema

Furunculosis a common condition is difficult to combat and presents d'agnostic pitfalls By its posterior exten ion a subcutaneous abscess over the masterd may be produced. Exploration of the mas told process may then be neces ary to establish the Sequelx such as perichondritis cellu-Its of the neck and face and extension to the mid dle ear are encountered. In some cases vaccine theraps is of val e

Desquamative external otitis is usually found deep in the external canal The essential cause is naknonn

Chronic dermatiti of the canal is frequently produced by fungs. The diagnosis a made by micro scopi examination of the debris. In certain cases the clinical picture is typical Such cases clear up under the daily instillation of alcohol

Primary diphthena if su pected is easily veri fed by culture Antitoxin is a specific remedy the author's ca es a typical membrane was visible

Syphilitic condylomata are fare and usually supe imposed on the moist surface resulting from chronic suppuration of the middle ear The lesions are multiple discrete ted irritable looking papules resembling certain types of acute eczema

Chronic infiltration of the meatal lining presents diagnostic and therapeutic difficulties Supp tration of the m ddle ear must be excluded if possib e The treatment usually consists in removal of the accu mulated debris and the application of silver nitrate solution to the lining followed by ear drops of glac o clock 12 o clock and 2 o clock (4) serme out, ment white the patient is on the operating table and every second day for a few times and (5) potassium bronnde in large doses. Smith does not paralyze the orbiculars or inject the seventh nerve or truss up the eyeld with a paratus. He believes that the nor mal ton contraction of the orbiculars saffords an excellent spint better than any substitute; et devy ed

When prolapse has occurred Smith does not interfere until from twelve to fourteen days after the operation because of the extraordinary sensitivity of

the iris after the ope atio

The treatment of drawn up pupil he divides into four types of operations. The two he uses and recommend a e as follows:

1 A sharp cataract knife as naerted at right angles to the s riace of the on one where the love edge of the pupil is to be and an opening i made pust large enough for the introduction of a pair of forceps: A fine pair of ints forceps is then introduced the margin of the ins grayed and brow the owner of the similarly necessary proposed to rout of This post to make the can take foreneal out of the way of the pupil a 1 of ne as to be visible only on care full respection.

kinfe i pa sed on the flat just beh ad the sclerocornet at 5 or o, o clock, accord 7 to which eye is infected and driven across in front of the is to the opposite clericover S. So fix and leadings will of the lander set in the state of the lander set in the opposite saming well into the ittreous and the hafe bonit leaning well into the ittreous and the hafe then uthdrain in the handle beingraised to keep the bonit leaning hell into the ittreous and the hafe to the hard prince and the set of the handle beingraised to keep the blade prissed against the seferocornical incision. If it would not have also the set of the handle being and the set of the hard so will be a fine secret of success lies in the use of the handle to milk adran out. If the kinde is simply bushed ag in it the iris it vill not in those we sharp it may be the in the limit it is it vill not in those we sharp it may be the in the simply received before it. Too D Aux. Wid.

Chase L A Di betic Lipæmia Ret n lis Ca J M 4s J 9 7 97

Cha e reports a case of diabetic liproma eur I which sho ed byperl pomia hypergly carria ac do sis ant glycosur a Under treatment with asulin the elyco uria and acidosis leared up rap dly and the lipromia cleared up in fift en da.

THEMAS D / LLEN V D

Tronco o M U Ret n i Retinitis Ext rns and Ch ditis Am J Ophih 9 7 3 8

Histologically the 11 sues of the choroid and retina are niturally associated but have two sour es of blood supply one the retinal artenes a term and system and the other the chorocapillar. The intunties a sociation and contact of the 11s was and the dual blood supply make for a multiplicity of degenerations and inflammations with consequent difficulty in the radifferential and definitions.

Anatomically inflammations and degenerators of the inner coats of the sy may be divided into those affecting the chorone them the external return and those affecting the chorone them the external return and those affecting the individual control of the external return and those affecting the individual control of the external return and the external return and the external return the degenerative changes occur in the internal layers of the ring Troncois suggests also a classification of r times transitions and choroidulis 1 well with corr W to

McG en H M R tinal Petechia is a Cli I'al Entity of Auto Intox ation Prc Ry Sc I d Lond 10 7 x 607

Retinal petechiasis is defined as an e-udation of blood through the v-alls of the retinal vessels with out rupture of the vessel wall as in retinal harmor rhage. It is brought about by circ lating towns from di-tant foci of infection and is relieved by the removal of the fired infection.

The author reports the cases of fifteen pat ents rangin in ge from 40 to 83 years. In most of the ca es the organ sms respons ble were streptococc but in some of them the causative agent was the rolon bacillus Dental fo a occu r d as definite alveolar infects n at the roots of the teeth often b hind the lower wisdom teeth In most of the cases of tons llar infection the tonsils were small and buried and pus could be p essed from them after retraction of the pill is. This secrets in was exam ined microscopically. In many ases the maxillars and ethmoid sinu es were infected. The author recommends that in the abs noe of definite fillings elsewhere the antra be w hed out on usp ci n In one case in which the bacillus coli was found in the catheterized urine the condit on clea ed up un ler the use fa accine and hexam ne

States t Die VD

Godwin D E Chori reti it nd Rec rr nt Hæmorrh g s into th Retin and Vit e from Multiple F c l Infe tion 1m J Opt h

Foll wing a even of the lit ture on restured there is not better at an helard up frether the another little free the second of infected for 1 the uthor ep of the case of man 50 evens old hose that atta k of choro retirutis with harmorthage curred at the age of a little which as morphage curred at the age of a lowing the enouval f an iterated to the following the enouval f an iterated to the following the enouval f an iterated to the second order on the following the enouval f an iterated to the second order of the following the enouval f an iterated to the second order of the following the enouval f and iterated to the second order of the following the enouval f and iterated to the second of the following the enough following the foll

Teu m ath later there wa a acerbation of the eye's mptoms and a tonsille tomy was done as the tons! wer by o by infected Liter then be froatal ass was opened nir nasall follon as the sppearan flu t is nasalop in g 4t this tune the flected eye d t d upward o depre but ultimat by the deviation disappearange of the deviation disappearange of

the cavernous sinus Nevertheless the condition is always serious however insignificant it may appear in the beginning Evidence of this was offered by the case of a patient who died on the seventh day of an acute staphylococcus septicæmia in spite of vac cine treatment on the first day and an extensive

operation on the third Lubet Barbon said that cales with extensive induration and a not very high local temperature are al vays suspicious Chemosis and unilateral or bilateral exonbthalmos are certain signs of throm bosis of the cavernous sinus

AUDREY G MORGAN M D

Roentgenological Evi Cole Reeler and Sm th dence of Nas I Sinus Disease J I d a St I 927

As a result of the work of Granger Grier Skillern Pfahler Law and others a net technique has been developed for the roentgenological examination of the nasal acces ory sinuses Formerly the \ ray were only used to demonstrate the size and contour of the sinuses but today they are found of con siderable aid in determining the pathological conditions within these cavities. The diagnosis depend on an accurate interpretation of the \ ray plates which depend in turn upon a knowledge of the anatomy of the nasal sinuses an I the types of shad ows cast by different pathological conditions in the nose In all of the sinuses acute catarrhal and sup putative sinusitis chronic sinusitis and polypoid degeneration can usually be diagnosed and differentiated especially if the history and course of the disease are considered with the roentgen findings MANFORD R WALT MID

Garretson W. T. Osteoma of the Frontal the M zillary and the Sphenoid Sinuses with a Report of Cases 1 h Ot 1 y g 1 9

The author reports three cases of osteoma In the first c se the tumor involved the frontal and eth more sinuses and orbit in the second, the sphenoid maxillary and frontal inuces and in the third the right antrum. In the first and third cases operation wa performed and vas folloved by recovery the sec nd case operation a contra indicated on

account of the patient ag

Two hundr d and fifteen cases of ingle or mul tiple osteomata have been reported in the literature The site of the tum r was most frequently the floor of the frontal sinus. O teomata usually de elon when the bo es ar u dergoing th ir greatest de velopm ntal acti its. There are three arietiesthe b mat d the compact and the spongy. The tumors vary gr atly in size. Their growth is usually slow They a e more or less encapsulate I and are usually joined to the floor of the s nus by a pedicle with a cancellous structure. Their urface conforms to the confining w U and is co ered inh connective tissue In osteoma may be preent for ears before relief 1 sought. The amptoms include the manifes tations of the growth with a the sinus an I the symp-

toms produced by its pressure on adjacent cavities The diagnosis is usually made with the \ ras MANFORD R WALTE M D

Turner A L and Reynolds F E Acute Infection of the Left Sphenoidal Air Sinus Cavernous Sinus Thrombosis with Organization of the Clot Leptomeningle's Operation Death Autopsy J Laryng l & Ot 1 1927 xln 181

The authors report a case of acute fatal lepto meningitis secondary to cavernous sinus thrombosis The patient was admitted to the hospital with a history of severe nasal catarrh and sore throat of four days duration. The sudden cessation of a profuse na al discharge which had persisted for two days was followed by propto is restriction of the movements of the left eveball and chemosis of the contractiva.

linder local anasthesia the anterior end of the middle turbinal was removed and the ant rior ethmoidal cells were opened. No pus was evacuated On the following day no improvement being noted the left frontal ethmoidal and sphenoidal air sinuses were explored through an external incision examination also failed to reveal pus but showed the lining of the sphenoid to be somewhat congested Five days later there was marked improvement in the general condition with a decrease in the swelling of the lids and increased movement of the eveball There was no optic neuritis Two da slater a recru descence of delirium developed but free opening of the left frontal sinus failed to give relief and no extradural abscess could be discovered Death occurred on the seventeenth day of the illness

At autopsy pus was found in the subarachnoid space over both frontal lobes and a slight meningitis over the lower surface of the brain The left maullary sinus was filled with gelatinous vellow ous. The pus from the antrum showed pneumococci and at the time of operation staphylococci and diphtheroids were cultured from the left frontal sinus Micro scopic examination of sections made from the cavernous sinuses showed the left to be almost com pletely obliterated by fibrous tissue On the right side most of the blood spaces persisted meninges several thrombosed veins were found in the dura mater covering the floor of the middle cranial fossa \o thrombosed pial veins were seen

Pus having been present in both the manillary and sphenoidal sinuses the question arose as to the site of the primary focus of infection of the caver nous sinus 's acute bacterial inflammation it ar a blood vessel injures the endothelial lining with thrombus formation and later extension to large vessels the authors believe that in this case the cavernous sinus thrombosis became organized with re establishment of the circulation and consequent amelioration of the pressure symptoms but that the infection v as not restrained and extended to the pia arachnoid space. In a certain number of cases of sentic thrombosis of the cavernous sinus sponta neous recovery results This occurs most frequently

the bone erosions and fistular occurred in a large percentage of the cases. In six cases a patent oval window without any other associated lesions was discovered. Facual paralysis was noted in 8 per cent of the 150 cases. Cholesteatoma was present in 62 per cent of those of chrome otorrheea with a change in the laby mith capsule.

In the second section of the erticle the clinical aspects of 102 cases of labyrinthitis without intracranial complications are considered. Representa-

tive types are dealt with in detail

In thereweigh cases of circumscribed fullying this is occurred with choice middle car suppuration the region of the lateral canal vas involved. The se certi, and duration of the labyring that stacks varied. Laterat and active periods afternated as rule the middle cert type of deafine a with considerable loss of heating was present spontaneous mystagmus ramy be present or el cent 1st duration varies. The fistuli sign, vas obtained in eighten of the twenty four cases study of A typical case.

reported The diffuse acute manifest type of labyrinthitis was found in filteen cases. Twelve of these were purulent in character and three were serous Symptoms due to the listurbance of the static laborinth predominated but complaint may be in de of tin mitus or increa ed d afness. The attack i initiated by su lden vertige and di turbance in equilibration \ausea and comiting acc mirror or follo these symptoms. During the ently stages, there is a well marke! horizontal and rot ry nystagmus to the sound si le In acute serous laberinthitis headache is n t complained of but in the uncompliated purulent type occ pital head che is usu fly present lever v as noted t the initi I stages of four ca es of purulent laby enthiti In the serous type the e is usually no elevation in the temperature I unctional examination of the ear is nece sary to determine the exact type of diffuse labyrinthit serous is u ed to designate cases n which a r m nant of hearing remains

Three cases with complete chi cal fata are reported to illustrate the two types of acute diffu

labytinthitis

is the acute stage subsides and the manif st symptoms disappear the pythological process becomes both chrome and latent. This condition is known as chrome (latent) prundent I but this Thi ty even such circs were recognized. Recognition of the pruvlent focus is of importane as operative interference may result in meaningitis. At typical case h story is reported.

The stonianeous cure of the purulent process tesulis from organization with fibrous issue and new bone This condition was obler of six months after the onset of the acute state. When os fiestion of the descare it by within its cure with the continuation of the six of the continuation of the six of the control disposals of the healed functionies likely raths to based on the relative duration of the siter partiagman obtained by rotating the patient to suppositions.

right and to the left Spontaneous cure of labving thitis with loss of function was found in twelve cases An illustrative cases a reported W. W. Parov M.D.

Lagleton W. P. Phy ! togical Factors in the Contr I of Otitic Meningitis L rs & P 1927 x 74 13

In Lagleton's p mon suppurative meningitis becomes cured spontaneously very much more fequently than is generally believed and is curable

as long as it is loc 'jard'
Infection of the frontal lobe differs from infection
of the temporal lobe because the mechanism of pro
of the temporal lobe because the mechanism of pro
incentification in a frontal sum as indexing the pro
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in the property of the property of the sum in the lotter of the property of the property

Granger A A New P sition for Making Roent genograms of the Mastolds J im II is

JAMES C BRASWELL MD

come infected.

The petrous bone view I fix superior to the late all oblique tiew in the dragn, is of mastiod infections but is more difficult and techous to obt in and in the cases of patients who are unrul viry weak or versept c or who have very short necks it is impossable to obtain Grangers a technique is as foll ws

1. The mastiod local zer is fitted with the 50-

degree angle block provided for use with it when
r entgen grams in this position are to be made
y sette covered with the localizer equipped

2 \ sette covered with the localizer equipped as described is placed on a 13-degree angle block with the inclination tow r l the patient's feet

3 With the patter 13 ng n h a back the her will be detailed with the vertex resting on the casette a done sade of the heal ag has the vo-de tee angle block so that the agrital plane of the head will be parallel to the latter the noce within the adjustable upright upport the septum again the lower one and the forehead gainst the upper one

4 The cut al my is decied through a point in in front and 2 n bo e the esternal auditory meatus. In thes photographs the subject is in 10 mion for reentgenograms of the left mastoid.

[10 mion for reentgenograms of the left mastoid.]

NOSE AND SINUSES

Vi lie Furunci of the Ala Nasi E t n i Es ly
Operation De th f om Staphylococc s Sep
siccemia on the S enth Day (F r d
i a l du nt t l nge préc ce m t a
ptèm j p plicém staphyloc cqu')
i à nt f d lu [1 g b xn 1 cs

The prognoss of furuncle of the ala mass and upper his has become much betters are the introduction of systematic ligation of the angular vein which prevents its worst complication thrombophieb its of he more often relieved by incisions along the laugh ing wrinkle Cleft lip may be closed in two stages The delayed flap method of suture may be indicated in certain cases. In every case of failure to obtain union a secondary suture should be made during the second postoperative week

TAMES C BRASWELL M D

Epidermoid Carcinoma (Epi Pendergrass E P thelioma) of the Lip Diagnosis Pathology and D cussion of the Treatment by Non Surgical Measures S g Cln \ 4m 97 II

Pendergrass reviews the normal histology of the lip and the pathology and early clinical picture of cancer of the lip In the differential diagno is of cancer it is necessary to exclude syphilis tuber culosis and granuloma progenicum Involvement of the glands can be most readily detected by digital palpation ath a finger in the floor of the mouth and the patient s head relaxed

When necessary Pendergrass removes a specimen for diagnos s with the endothermy knife. Anasthesia 1 induced by the topical application of 10 to 20 per cent cocaine as hypodermic injection is associated with the danger of entering a field of involved

lymphatics In the removal of the local lesion Pendergrass uses radium Fifts milligrams of radium screened by A mm of aluminum which removes only so per cent of the beta or therapeutic rays are applied in a dose of 60 mgm hrs per square centimeter of lesion Larger le 10ns receive 70 mgm hrs per square centi mete. If the lesion is I cm in diameter the radium irradiation is supplemented by endotherm deep anæsthesia induced with other (the other then being emoved from the room) or under nitrous oxide or local nerve block anæsthesia, the entire circumference of the lesion is coagulated by bipolar en fothermy cm distal to the indurated edg infiltration is used. The entire les on a then removed w th the endotherm knife. The endothermic treat ment is given twenty four hours after the radium treatment in order to obtain the effect of the irra d ation. The slough separates in from seven to ten days and the area finally heals with a soft supple margin and very 1 tile persisting deformity Occa nally however a hype trophied scar or hard indurated keloid develops. This must be diffe en tiated from recurren e The keloid may remain hard to two years and eventually disappea without

treatment Syphil's co-e 1st ng with car inoma should not be treated simultaneou ly After treatment of the can ce as a month interval should be allowed for the development of pradiation fibrosis and endarteritis before anti syphil's treatment is instituted

For the lymphatics draining the nvolved area ray treatment directed through each cheek is used if no gland or only a few glands are palpable An er) thema dose producing slight tann ng in ten days is given. The normal tissues surrounding an in vol ed area play an import of part in determining

whether irradiation will be beneficial or not must therefore be taken to preserve them

For larger nodes deep irradiation is used if there is no danger that the nodes will break down. In addition radium packs are applied around the chin and over the glandular areas under the chin and raws These regions are difficult to reach by deep therapy If the desired effect is not produced by the first treatment the filtration should be changed Four series of irradiation treatments are given at intervals of six weeks

Pendergrass does not advise primary block dis section of the neck Surgical exposure of the glands with the implantation of radium seeds has also failed to cure Enlarged glands of the neck seem to respond to divided doses of irradiation therapy the nodes have been pradiated long enough for the development of definite fibrosis and are gradually increasing in size the local removal of a large mov able node which shows a tendency to break down or the implantation of gold emanation tubes if there is no tendency to break down is advisable. The necrosis of tissue that formerly attended the implantation of bare emanation tubes is prevented by gold filters

In cases of advanced epithelioms of the lower lip the pain may be relieved by section of the fifth nerve or the posterior cervical roots as they emerge through the inte vertebral foramina on the affected side (cervical rhizotom)

Fifty eight of 172 cases treated are analyzed. In fifts of these there was no local recurrence eight in which a recurrence developed it disappeared afte a second treatment Of thirty seven patients with no metastasis at the time of treatment, thirty four did not develop metastasis after the treatment Of twenty seven with metastasis at the time of treatment the enlargement of the glands disappeared in five showed no increase in six and increased in eleven HARRY C SALTESTEIN M D

Owen M Lesions of the Tongue with Special Reference to The r Location Tex St 1 J M 9 7 1 1 603

The diagnosis of a lesion of the tongue may requi e repeated biop y Benign lesions occur most f equently on the dorsal surface of the anterior half of the tongue at or near its tip Malignant lesions are found most commonly on the base and margins but epithel omata associated with syphilis occur in the middle third of the dorsum near the median line In general malignant lesions near the tip of the tongue are of a lower grade of malignancy than those nearer the ba e GEORGE R MCALLIFF M D

NECK

Elliott C A D seases of the Thyroid Gland-Med cal Clinic J low St 1 M Sec 1927 I n

The author emphasizes the necessity for a clinical classification of hyperthyroidism that is usable at when the primary focus is in the ear. In some cases recovery is favored by operation on the lateral sinus. The authors report a case of the latter type.

Gronge R. McAuliry M.D.

Merkel C C Use of Ephedrine in Rhinology

Ephedrine is an alkaloid the active principle of the Chine e ma huang. It can be obtained in the alkaloidal chloride and sulphate forms. The chloride form has proved to be the most satisfactory. It is used in 1: 2: 3 and 5 per cent solutions but the

3 per cent solution is best

In general local nasal treatment is indeated in (i) actue nasal and accessor, suns disease an adults in which surgery is contra indicated (s) chrone nasal and accessor) sinue disease in adults as an a junct to surgery (s) acute nasal and accessor) sinue disease in indiants and children in which surgery 1 justifiable only when complications arise and (4) chrone nasal and accessory sinue disease in children in which surgery should be avoided except for the removal of fouce for

In acute inflammations the author has found pheding of greet value for d agnoss and to dimitush conge to a and facilitate diratage. It is used as a paray for topical applications made with cotton on a probe and on cotton packs. Construction of congested inwoosa is noted in from forts to surfy secon is and lasts for from three to six hours without any disagreethed after-effect. The author recommand is a surface of the construction of the const

MOUTH

Horsley J S Jr Harelip and Cleft Palate 1

W Wo th 0 7 1 1 782 The pl stic surgeon has no group of cases in which good results are more important than in those of herein and cleft palate. The ultimate success of plastic operations depends upon accuracy gentle ne s and careful attention to details. Harelin should be corrected within the first few weeks after buth and if there is an associated cleft in the ante mor alveolar ; rocess th should be closed before the lip is sutured Early closure f the lip vill improve the appearance of the face and insure proper facial development and contour The best time at which to operate on the palate is between the ages of 6 and 18 months a at the age there is more available tis ue for the closure the painte tissues are better developed and shock is apt to be somewhat less se ere In order to avoid defective articulation the palate should be clos I before the chil I begins to speak Early correction prevents also many com plications frequently dependent upon an pen

palate
The detuils of the pre-operative and postoperative care are extremely important. If the child's nutrition is poor or if he has rickets secondary anæmia

an upper respiratory or middle ear infect on infected tonsils adenoids or decayed teeth the operation should be postponed. The patient should be in the hospital at least twenty four hours before the opera tion. In the author's cases neosilvol or argyrol 25 per cent is dropped in each nostril every four to six hours and if work is to be or has been done on the palate the latter is sprayed with a warm 2 per cent bone solution after each feed ng This routine is begun on the patient s adm ss on to the hospital and continued after operation until healing is com plete After operation the baby a hands are secured so that the fingers cannot be placed in the mouth Retention enemas of 6 to 10 oz of water containing I per cent sod um chloride and 4 per ce t glucose are given several times during the first twenty four hours after operation Feedings are given with a baby feeder or teaspoon for two weeks breast or bottle feeding then being begun

For the correction of hately the author prilers a mod fication of the Rose operation. A good result requires (1) accurate approximation of the motorulaneous brifer of the Ip. (2) a lip free front teams of the first principle of the standard of the motorulaneous brider of the Ip. (2) a lip free front teams of the first principle of the first principle of the first principle of the first principle of the mucosa at the point of suture and (4) correction of the accommanying deformative of the nose

The repair of a cleft palitie is based on the principle of the Langenbeck operation. The important steps are: (1) thorough deaudation of the adjacent marg in so the cleft: (5) free mobilization of the mucopernostical flaps from the hard pal te (3) maintenance of good mutrition of the days, said (4) second approximation of the dense the proting of the cleft of the cleft of the cleft tension. The author has used this te hunger at thirty three cases without a death or senous post operative complication.

Garg R McAller MD

F rr R E. Some Sho tecomings in the Surgery of Cleft Lip and Palate with Suggestions in Meeting Them M 1 Md 927 x 7

Farr is of the opinion that the results of the t eat ment of cl ft lip and palate will n t be mait all imp oved until the principle a dipart ce of plashi surgery are taught nevery med cal school and every community i supplied with surgeons properly trained for the work

The h gh mortality in such c ses is attributed to the fact that children with thes defects are not normally rob st M ny children with cleft lip and palate do not rea h maturity even when they are not subjected to operation

In d seuss ag the te hanque of operation Far states that the B oph nature may be do e an two stages Postoperate en musl stretching of the ly mil relever tension i creas the redundancy of the 1p and prevent its thinning out. The nest section of the cast of th

Richter H M Thyroldectomy J Am M Ass

Richter emphasizes the splendid results of adde quare thy roid surgers in the treatment of thyrotoxions. Residual symptoms that is those of the onig not residual symptoms that is those of the onig not residual thyroid to see They signify madquate surgers, and demand removal of more thyroid tasse at a second operation. Non-operative freal ment of touse goiter (as well as madequate surgers) have not produced the high percentage of curve obtained by radical surgers. They obtained by radical surgers of use of ment of the comment of the produced the larger of the comment of the comment of the produced the produced the produced the produced the comment of the comment of the larger of the comment of the comment of the larger of la

Richter operates on every patient with tour gotter either exportabilities or adenomations who consents. The preluminary preparation ranges from the to twenty days and includes the administration of from 30 to 43 minims of Lugol's solution daily The author stress the fact that the use of odiner. I the author stress the fact that the use of odiner. I to preparang the patient, for operation. Cardiac decompensation and fibrillation while senious are

not contra indications to surgers

The results obtained in 100 recent consecutive cases are analyzed. Seventy six were primary hyper plastic goiters and twenty four secondarily toxic (adenomatous) gotters The average basal metabolic rate before treatment other than rest diet and the use of sedatives for a few days was 50 5+ operation ninety four of the 100 patients showed an immediate fall in the basal metabolic rate below 15+ The average rate of these ninety four patt nts was 16+ Four of the six who had a persistently raised postoperative rate averaged 40+ These vere re-operated upon a mass of thyroid tissue being removed The metabolism rates then fell to normal in all averaging 50 Following re-operation in a fifth case the metabolic rate dropped to 2+ There fore 90 of the 100 patients studied were relieved of hyperthyroidism

The author reports also the late results as deter mined by Elliott in the cases of patients operated on by Lanavel Loch and the author. In approximately 03 per cent of the old cases there was freedom from all evidence of thyrotoxicosis In 7 per cent there was a recurrence of some degree of into ricution or some degree of hypothyroidism A study of the condition of the 93 per cent of the patients who were f ee from evidence of toxic symptoms showed that of those who were operated on in the early stages of the disease practically none had any evidence of per manent secondary pathological change whereas of those who were operated on after a long period of intoxication the proportion showing permanent secondary pathological change mainly cardiac was remarkably high more than 50 per cent Accidents peculiar to thyroid surgery are di

cussed briefly There was some evidence of hypothyroidism in several patients who show a metabolic rate below—10 shortly after operation All but two

or three quickly reacted the metabolism returning to normal. The results are still too recent for a final statement. Temporary injury of the recurrent la ryngeal nerve occurred a number of times. Usually the cleared up in from one to three months without any after effects. Senous parathly roud injury did not occur in the present seenes although in another series of 100 cases there was some evidence of para thyroid injury in 15 per cent.

JACOB M MORA M D

John H J Chronic Tetany A n S g 1927

Among the factors a high make the treatment of chronic tetany a complex problem is the very con siderable psychic disturbance with which it is asso ciated This factor is very difficult to evaluate and to eliminate. The author cites two cases in which injections of saline solution were substituted for parathormone injections with complete relief from the tetany over a long period of time. In one how ever true tetany recurred in a severe form and sub sided only after large doses of the parathyroid Having experienced severe attacks of hormone tetany it is not strange that these patients live in dread of their recurrence and the uncertainty as to when they will recur wears down control and leads to the developm at of the psychic factor picture is further complicated by the fact that the serum calcium content in chronic tetany is not exceedingly low and the symptoms do not cor respond to the variations in the calcium level. In some cases the patient may feel best when the serum calcium is low and may have an attack of tetany when the serum calcium is not far from the normal level. In a series of normal persons the serum calcoum content was found to be between to cand tr mgm per 100 c cm In definite cases of tetany the serum calcium ran as lon as 45 mgm and in chronic tetany it was usually 8 mgm or more per 100

To determine what subjective manifestations accompant the parathormone injections the author allowed himself to be injected intra-enously on everal occasions. He experienced innight in the ears tingling in the finger tips slight chilling and generalized pains which resembled those associated with the onset of a severe cold. On one occasion a slight rise in the serum calcum level was followed by a transient but marked fall. This phenomenon was not observed in the other experiments.

LEO M ZIMMERMAN M D

Fletcher II Demonstration of the Principles of Talking and Hearing with Application to Radio Ann Oct Phasi & Laryng 1 1927

Fletcher discusses the physical characteristics of speech the changes occurring in the sound waves during their transmission in the air the interpretation by the ear when the sound waves are changed in shape or magnitude the mechanism of hearing the bedside and di cusses the use and abuse of iodine medication

The throad gland plays an important role in hysiological and psychological life It has a good deal to do with the whipping up process Patients with an effort syndrome often present mild may be a supported by the support of the present mild with the support of the support of the whipping up process the support of the whipping up process and the ret of the whipping up process a lafection often similates hyperthyroidism. In a lafection often similates hyperthyroidism.

such cases the treatment should be directed against the infection rather than against the thyroid

Gotters may be class fied as (1) endemic gotters due to oudine deficiency (2) collod gotters associated with some other condution such as childright the memopause etc. (3) non touc gotters with normal thyroid activity (4) touc adenoma with progressive hyperthyroidsism and permanent to use damage (4) exophitalmic gotter and (6) thyrocardae gotter which causes panicipally heart symptoms and is which causes panicipally heart symptoms and is acrocular fibrill too a basal metabolitm examination should be made for the control of th

As the result of the use of 10d ne in gotter many cases of induced hype thyroidism are seen. In tonc cases the administration of 10dine 13 indicated only to prepare the patient for operation

The treatment of severe hyperthyroidism is purely s.g.cal. In properly chosen cases it should be as radical as possible because deficiency symptoms are easily controlled whereas inadequate removal of the gland may ne es tate repeated operations.

F S MODERN M D

Hueck II The Question of the Pa allelism Between the Clinical and Histological Pictures of Gotjer (k n Be: s2 s F g d Pa all km s wisch a kim hem u d h st lg n hem B ld d S r m l) U ak 2 th f Ck 9 6 c cm 66

Since the beginning of the year rost a cateful study has been under all old the author is careful study has been under all old the author is careful and particularly and the study of the condition agree. In the massess of the byte of the condition agree, In the massess of the hybrotocosis is not always parallel with the histological picture. Of fifteen goiers without the product is improved with the product in the product of the product

In the ten cases of hyperth; rodism ie cases with distinct symptoms of this protoxicos s without marked exophtalinos but with an increase of from so to 35 per cent in the basal metaboa m the go ters were all macrofollicular collo d strumata and all e cept one showed with more or less marked epiths

hal proliferation.
Also among the cases of Ba edon's dise se which otherwise showed a typical chinical and histological picture there was one case which differed radically CI ically this was a typical cise of moderately severe B sedon's diese. Only the right lobe of the

thyroid gland was enlarged. Even macroscopical it was seen to be very rich in colloid. There we several nodes Histologically it was a typical collin struma The follicles were mostly of moderate su but there were numerous sections with small to li les There was no epithelial proliferation ill. the follicles contained highly colored colloid. The was no round cell infiltration Proliferat n na present in only two of the small nodes The histological ical diagnosis was struma diffusa et rodosa coll idi macro et microfollicularis non proliferans. It wa therefore one of the e exceptional cases in ahi h h stologically quiet struma gives the chincal p ctu of Basedow's disease An explanation is difficult Apparently it was not a case of thyrogen c Base dows disease but an enlargement of the thymu could not be established by means of the roentge ray and thy toidectomy was followed by a very good result

An explanation might be afforded by the assumpt on that the thyroid gland was not the first orgat to become di eased but was the ch el organ in olse in the sympathetic and parasympathetic nervoe systems. The author believes that in spite of the absence of typical histological changes the colarge ment of the thyroid was a manifestation of a genue cally very complex condition. Here M. \times (2)

Goodall J S and Roge's L The Nature of Thyrotoxic Myscarditis Lo 1 1927 ccm 456

The authors present ele trocardographic and pathological ev dence in support of the vie that sustained thyrotoxicous ultimately re ults in definite my orardial degeneration

The electrocardiogram shows that in thyroton coss the P was which normally a smaller than the T wave reaches the level of the T wave reaches the level of the T wave. This demonstrates the either the auricula contraction is a relatively greater or the contractions in the region of the ventiroular be are smaller. In either as a chosen or unpartient of funct a nich series action or unpartient of funct a nich series of the cartenian of the contraction of the contractio

The pathological ch nges in the heart are s m

man ed as follows

1 Hyaline deg neration and necrosis of many
bundles of fibe s scatte ed throughout the myocar

- dum The ac to ed bundles take the sta a po th They are swollen and ill defined In some of them the nucle alo are so often 2 A migration of e ridently phagocytic teds in the d rection f ertain of the nerrosed fibe s doubt less to promote the absorption This infiltration
- while ery marked in some places s absent in others

 3 Dilated cap it ries choked with endothel al

 4 Dilated cap it ries choked with endothel al
- cells which s e infiltrating certain necrotic area in their vicinity J con M W as M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Vastine J H and kinney K k The Pineal Shadow as an Aid in the Locali ation of Brain Tumor 1 J R 15 of 1927 X11 320

In 616 examinations of the skull the pineal gland vas found suff sently calcified to cast a shados in 47 o per cent. In the cases of patients over 20 years of age it was visualized in 59 2 per

The normal ra e of the posit on of the pineal gland wa determine t by a study of 200 films show ing calcification made in the cases of patients (ith out inte cranial les ons Measurements i cre mide (1) from the most of tant point of the inner table of the frontal bone () from the most d tant point of the inner table of the occiput (3) from the inner table of the vault and (4) from the level of the base of the skull By plotting the e mea urements on ero s section p per the normal anteropo ter or and

vertical arrat o s were determined Next 33 a es of enfed b in tumor cases that showed calcificat on were tudied. The I cat on of the tume number of cales and displacement of the shadow vere as follows

Lec	\ m [†]	a ri
Front 1	35	25
Tempor 1	15	6
Parretal	2	10
Occipital	9	4
Subtentor al	44	12
P tu ta v	_9	_3
	153	60

It is so not that the shador of the gland ras d placed in 51 pr ent of th ca s of glioma 57 per cent of the of men ngs ma 22 per cent of those of scou tic neur ma and to per cent of the e of pituitary t m r Hid o enh lu p s was ob erve I to di place the gland in 13 per cent of the case nd int acrani I hamo rhage in two ases CHRLE H H & OCK M D

SPINAL CORD AND ITS COVERINGS Arm u D The S rge y of the Spinal Cord and

It Membranes L 1 9 0 43

A mourt a e the su gery of the spinal cord from the time of H procrates to date. During the early centurie there as a bitter controversy as to the yu tift ton is gers on the cord and the few or rations that we done we e mainly trephina t ons of the pine which vere bloody dangerou and

formidable and followed as a rule by unfavorable results. However from time to time successful op erations were reported and after 1865 sentiment gradually changed in favor of surgery In 1885 Macey en decompressed a dorsal fracture of eight weeks stan ling with complete cure of the para plegia. This led to further attempts the field of pinal surgery then being widened to include Potts di case

The surgery of pinal cord tumors began with the successful removal of a growth in 1883 by Macewen and in 1887 by Horsley Horsley collected fifty ca es in 1887 and Mill and Lloyd later collected an equal number Sub equently the procedure gradu ally became less formidable and gave increasingly better results

Spinal puncture vas introduced by Corming in \$85 and popularized by Quincke in 1891. It was first used for decompression but now is done to show pinal block and for study of the cerebro pinal fluid Cisternal puncture introduced clinically by Woreforth Aver and Essick in 1919 has become a valuable adjunct to spinal puncture in the diagnosis

of block and the treatment of meningitis loculation syn frome incorrectly called From s syndrome is well known as characteristic of spinal block and is n obably due to the engorgement of the vessels in the pinal canal

Pneumomyelography a development from Dan dy 5 ventriculography i used as an adjunct to other methods of local zation. When a block is present no pain is felt in the head but there may be foot pains at the site of the obstruction. The procedure is not without risks and may be mislead

In 1021 Sicard and Forestier popularized the use of liptodol an oily preparation opaque to the \ rays which has been widely employed in the spinal canal to localize obstructions The lipiodol ascendant a preparation which is lighter than the spinal fluid is injected below but its radiopacity is greatly re duced and it tends to adhere to the meninges and may therefore give confusing results Lipio Jol me tant a heavy oil is injected into the cistern an I outlines from above Th technique is de scribed in detail The oil must be clear and trans parent. It is injected more easily if it is warmed Care must be taken not to inject air bubbles There is no doubt that lipsodol is irritating to the meninges in some cases troublesome sequelæ such as pain hyperpyrevia headach nau ea and pleo ytosis occur It is generally agreed that the \ rais may be misleading and that medullary compression is not definitely exclud d when the \ ray picture made with I piodol is negative. At times the neurological and hipsodol levels do not correspond. There are

and the effect on the pitch and qual ty of musical tones produced by faulty transmission of the sound

to the ear

Speech is produced by the passage of the air from the lungs through the vocal cords tongue lips and cavities of the nose and throat. All sounds except p t ch k f s th and sh which are produced by vibrations of the mouth are set up by vibrations of the vocal cards

An artificial larynx has been constructed which enables patients with a tracheotomy to talk. It consists of a whistle and a rubber tube through which the sound is directed into the month

The speech sounds are transmitted through the air by pressure waves. The pitch and intensity vary constantly. Consequently the transmiting system must be free from selectivity. Free air fulfills these requirements but air confined in closed rooms and chambers is a system of high selectivity which his.

torts sound waves seriously before they reach the ear. The ear consists of the outer ear middle ear and inner ear. The air waves are transmitted through a small bone of the middle ear to the oval window athence to a flund in the cochled. Sounds with 1 high frequency of about 5 000 stimulate the nerve endings of the auditory nerve within 5 mm around the ov 1

robatn

The inner car is non linear in response and acts the an overloaded vacuum tube. When a pure loud tone reaches the outer car the inner car responds with the loud tone and its harmonics. Another loud pure ione reaching the outer car can stimulate the inner car only if it is of sufficiently great intensity to outdo the first tone. This is why certain

persons are temporarily deafened by mose. It spure tone produces harmonic in the inner ear then with a musical tone which already has harmonics the stutution is not materially altere! Howe er it is the relative intensity of the harmonics which determines the sound quality. If the upper harmonic are ell musical the sound changes quality and if the quality but not pitch. Consequently, the quality is speech or music depends upon the intensity with which it reaches the ear. F S Mor a MD

Furstenburg A C Clinical A pects of Lary geal Cancer J W hg St te M Soc 9 7 xv1 94

The article is based on 100 consecutive cases of cancer of the larynx examined in the Department of Otolaryngology of the University Hospital Ann Arbor Uchigan

Seventy five per cent of the nationts were between the ages of to and 65 years The youngest patient was 20 an I the old st ba years old Lary ngeal car cinoma is about se en times as common in males as in females E white per ent of the nationts appeared for examination six months or more after the mit symptom hoarseness Purulent and blood stained sputum dyspnora and dysphag a we e late ymp toms of the d case Metastas s usually occurs late X ray and rad in treatment of lary geal c neer has been ve y d scouraging and thyrotom; and laryngof su e with ubmu ous re ection o the tiss e involved have not given a tisfactory results. Laryn gectomy the efore remains the method of choice for laryngeal neoplasms dema ding radical su gical interference TO EPH K. VIRIT M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Daland L M Untreated Cancer of the Breast

The author reviews too untreated cases of cancer of the breast Nunct, eight of the patients were volume to the patients were volume. The average duration of life after the appearance of the first symptom was fortv and one half months. The shortest survival was three months. Twestly one per cent of the patients died during the first year so per cent during the second variant of per cent during the third year. Twenty two per cent were alto ealter five years oper cent afters et next and 5 per cent at the end of ten veris. Lung or pleural metastians was found a related to the control of the live first the case to the control of the live first the case of the control of the distance of the control of the control of the distance of the control of the control of the distance of the control of the contro

There ca es are comparel with satty sax cases treated bu ope alton alone or follow du by ray treatment. In some the glands were unobted but in thers there was no gland invol ement. The lata to the e cases ere collected by Greenough Of the econd group of pritents 60 jet cent ver alton and there from the lesses at the end of three year 4 jet cent at the end of three year 4 jet cent at the end of the ears and 35 5 per cent at the end of see news.

JOSEPIK NARAT MD

Canett J B Sci hou C re noma of the B east with Extensi e Meta ta es 1 g Cl 1 tm

Carnett r port the case f a 20-year-old colored woman who had fi st note i a small hard lump in the 1ght breast abo e the nipple in 1020 One year later the right b east amputated for carcinoma In April 10 4 the Vray showed metastatic de po its n th pelvic bones. The patient felt well until eptember ous when she developed a sore throat a ough and pain throughout the chest A thorough lin I exam nation revealed only two small peas zed n lules under the kin of the al I men but the \ as showel carcinomatous met stases in all f the bones of the bols except the e di tal to the knees and elbows. The bony in olvement gre w r c an I the vertel re crumpled lath | g | lira ture occurred in the humen an l fem a lut unite l pontaneously. Root pains in the regi n of the t elith lorsal vertebra l i not re I nd to ralati n Both radu and tibia became invilve l

It is nerall agreed that bone metastasis occurs in the ubja ent ri by direct extension but it is unlect led whether d tant metastases occur through the blood stream or b way of the lumphatics

Handlev thought the humerus was entered by way of the superficial by mphates at the deltool insertion because pathological fractures occurred most fre quently in this area but Carnett has everal roent genograms showing invasion of the head of the humerus the scapula and the clavide ismultaneously before involvement of the deltoid re ion. Carnett believes that the avillary modes become invaded first perhaps by lymphatic embolism and this permeation radiates from these modes to the bones of the shoulder undermeath the deltoid passa. I not only the control of the shoulder undermeath the deltoid passa. I not become the control of the shoulder undermeath the callest make may be sometiment of the shoulder undermeath the callest analoso may be supported to the shoulder undermeath the callest make may be supported to the shoulder undermeath the callest make may be supported to the should be supported to the shoulder undermeath the callest make may be supported to the should be supported

Cancer spread down the lymphatures of the polystem adulominal wall and extends into the pelvis long before subcutaneous permeation nodules reach the upper abidome. From the interior of the pelvis it invades the femur. The permeation may reach the lymph nodes at the suphenous opening by this route before any other distant extension of breast cancer is apparant. Transplantation of cancer cells may occur within the abidomen or thorax but the great majority of metastases occur by permeation.

HARRA C SALIZETTEN M D

Handley W S The Origin of Bone Deposits in

Breast Cancer S g Cl V 1m 19 7 11 I In 1904 Handley studied bone metastases in seventy three of 329 cases of cancer of the breast

which came to autops. He concluded that bone metastasis occurs chiefly along the deep fascize be neath the skin and by I imphasic permeation rather than by blood embolism

He now agrees with Carnett that chains of infected glands can often be traced through the diaphra m along the aorta and its branches to the grom and that retrograde permeaution of the trunk lymphatics is a more rapid process than permeation of the small lymphatics of the fascal pletus. The features reached by the intra abdominal exten on and the humerus by permeation along the tributance of the anillary glan is. Han lie, is still of the opinion how ever that occasionally cancer cells may reach the humerus by the fa cal route. The freedom from metastiass of distal bones is only relative as in late cases deposits can be recognized below the elbow and knee

TRACHEA LUNGS AND PLEURA

Pritchard S Whyte B and Gordon J k M Concl sions Rega ding the Technique Following 1 000 intratracheal Injections of Iodized Oil in Adults Fad off 192 VI 104

Of the various methods that have been used to inject iodized oil into the bronchial tree the authors several mechanical factors responsible for this discrepancy. The use of hipodol is probably justifiable only when localization is impossible by other means.

In conclusion the author emphasizes the importance of a careful neurological examination and states that in his hospital spinal cord tumors have been correctly localized by this means in 98 per cent of the case:

PERIPHERAL NERVES

Bunnell S Surgery of the Nerves of the Hand

The author has done 10, sutures of nerves of the hand and fngers. The exceedingly good re uits he attributes to the fact that the nerves are either purely motor or purely sensory and the regen rative power of the nervous system is greatest at the

prophety
In the hand the motor and sensory functions are
of about eq. al importance and the loss of either or
both in whole or in part may cause any degree of
disability in a reasonal worker. In reconstruction
deformed or atrop the fingers Bunnell first repart
the nerves and awaits good regeneration before proceed x with the plastic surgery. Then x rage time
for the return of function was seven months for the
monumal nart of the balm three and two three

months for the distal part of the pulm almost three months for the provunal part of the fingers and e e and a half months for the middle segments of the fingers. The rates e med to be about the same in all nerves and not indusenced by the length of the mitryal between the accident and the near expair factor in the rate of regent and with an importal factor in the rate of regent and with an importal factor in the rate of regent and with a major factor of the result of the dependence of regent and the rate of regent and a set of the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the different sensitions and the phenomen of regent and the return of the phenomen of the return of

Of the different causes of nerve severance the most frequent were glass bottles saw cuts and poorly placed surgical incisions. Surgical incisions on the fingers should be midhiteral. Tender amputation stumps were cured by

neurectomy and injection of the cut end of the nerves with alcohol. The suturing was dine with a No. 16 straight kirby needle and the finest silk thread. The general principles of nerve surgery were rigidly observed.

beventeen of the cases are reported briefly with diagrams sh wing the return to ormat ALBERT S C 4W ORD M.D. with a weaker solution introduced with a nebulizer to prevent this error. Howers A. McKnight, M.D.

Schlueter S A and Weldlein I F Postoperative
Lung Abscess An Experimental Study 4 h

5 1 997 3W 457
Pathologically long abacess is of two types (1)
bronchectatic and (2) extrabronchial or paren
commons. The initial anatomical location of the
infecting organisms determines the type that is to
follow. Thus the first type originates in the air
passages while the econd begins in the parenchy ma
tous issuers. Each type 1 dependent upon a sepa
rate and distinct mechani m by, which bacteria are
brought to the initial site for implantation. In the
parenchymatous abocess this mechanic through
in the transmiss on the transmission of the contransmission of the procedure of the procedure of the
the bacteria are introduced by way of the air
massasses.

The type of lung abscess which develops as a sequel to operation possesses certain distinctive clinical characteristics which when interpreted in terms of a pathologic I process place it in the parently matou class with which no other than a hymatogenous! Jection can be associated

Postoperative lung abscess results from emboli m produced by the dislodgment of an infected throm bus from the vessels at the site of operation. For this theor—the authors give the following reasons

Facial postoperative pulmonary embolism is a chinical entity. This suggests the possible scattering from any wound of single or multiple emboli into the enous circulation.

2 Lung aboce as fequenth develops after operations in infected or potentially infected fields especially after operations on the nose and throat and the gastro intestinal tract. The pharms and gastro intestinal tract are mobile and thromba are gastro intestinal tract are mobile and thromba are on the brain in which the shall not a separation on the brain in which the shall not a separation incidence of postop rative pulmonary complications is nil.

3 Lung abscess appears often after operations in which I cal anasthesia 1 u ed

4 I ostoperative pulmona v complications are not pre ented by the constantly improved methods f admini tering general mesthetics

5 The lower! best re more flequently noted this eplaned by the greater volume of blood to these parts and by the more direct course of the pulmonary a tery to the lover lobe.

6 Often these set of the lover lobe.

6 Often there is a free period fter the operation before the onset of the complic tion. If the aspiration mecha i m were the causait e f ctor the symptoms ould appear early

7 Ia a in the chest frequently constitutes the initial sympt m and the chaical course that follows is often seve e until rupture and evacuation occur 8 Typ cal lung abscess rarely develops after the leddinger of feedings.

8 Ayp cal lung abscess rarely develops after the lodgment of foreign bodies even de p in the air passages

9 Attempts at the experimental production of lung abscess in animals by the introduction of in fected material by transtracheal implantation or by aspiration have been unsuccessful

10 Lung abscess can be produced easily by the intravenous injection of infected material

The comparatively early formation of a lung abscess after an infected embolus has found lodg ment and the rapid progress of the destructive lesson explain why the condition usually causes such grave chincal symptoms.

A reduction in the number of postoperative lung abscesses is possible but the condition can probably never be entirely eradicated. The best prophylactic measures consist in the prevention of infection in the operative field whenever possible the reduction of operative trauma to the minimum and the avoid ance of mass ligation of tissues.

SAMLEL KANY M D

Pool E II Closure of Abscess of the Lung by Muscle Transplant 1 S g 927 lts v 462

Pool reports the case of a man aged 6 years who as admitted to the New 10xt Hospatial in August 1911 with 1912 with

On May 3 he was operated upon for the closure of the bronchal fistula. Under other and othlene ansathesia tile skin and newly formed bone around the inus were excessed a cavity about the size of the index finger with soft friable walls being revealed. The innision was then extended along the lower margin of the pectoralis major and a strip of this musica about 4 in long and twice as thick as the cavity was dissected free everyl for its out r end turned into the cavity and fixed by two chromic satures at the cultie of the eavity. Along this strip a small draining tube was placed to the bottom of a small draining tube was placed to the bottom of a bright of the cavity and continued to the cavity and headed to the bottom of headed of the bottom of the cavity and fixed to the bottom of headed of manifestic markets.

In October 1926 the patient had gained 35 lbs was working and had no complaints. The \ ray showed no evidence of the previous cavity.

MARSHALL DAVISON M D

ŒSOPHAGUS AND MEDIASTINUM

Mo ley J Card ospasm La cet 927 c zn 431

The cause of cardiospasm is unknown. There is no well defined anotomical sphineter at the lower end of the exophagus and a physiological sphictic must be supposed from the symptoms of the condition. The author rejects all theories so far advanced to explain spasm of this circular muscle.

prefer the supragloit c method. Then have found to the more simple and more economical from the standpoint of time expense and labor than other methods and accompanied by fen if any claimers. The need of securing the full confidence and coperation of the patient at the time of the nurse in a semiplastic different patients. The model of the securing the full confidence and coperation of the patient at the time of the nurse in a semiplastic different time of the nurse of the securing the semiplastic different time of the nurse of the semiplastic different time of the nurse of the semiplastic different time of the semission different time of the semiplastic different time of the s

The oil and the anasthetic solutions should be warm. The pharene and herene are sprayed with a 5 per cent olution of cocaine or buten. When the patient feels a lump in the throat the ole can be in

jected safely

If the lower bronch al trees are to be studed the supection is made with the patient is an upwight position and leaning slight! toward the side to be injected. If the upper lun fild are to be studed the patient is placed on a tilting table in the recum learn position being on the affected side. Immediatly after the injection the table is tilted so that the patient, lead is pointed toward at an angle of patient, lead is pointed toward at an angle of the patient. The patient is the position of the patient is the patient in the patient is the patient in the patient patient is the patient patien

The indications for the procedure are s follows:
(i) cases of the one cough associated with loss gatanding infection in the appear re printory it is paticially sumusius:
(3) cases of cough it in particularly sumusius:
(4) cases of cough it in particularly sumusius:
(5) cases of the cough it in particular expectoration and a for in poly (3) cases of long standing cough with little or no expect ratin a non history of frank pulmonary disease (4) do not cases of bronchierta:
(5) cases of bronchierta:
(6) cases of bron half fistule and (6) as a therapeutur agent

The contra indications are acute affections so has influenza active tuberculos advanced pai monary suppurations recent haven pix and advanced circulatory complication such a singular pectorial subjections and in a carlae decompensation of the supperson of the s

Ballon D H and Ballon H C The Effect of Injection of Lip odol and the Rat of Its Dis

injection of Lip odol and the Rat of its Dis appearance in N rmal and D sed I ungs

following conclu ons

On the basis of roo b onchos opic intrapul
monary injections of lipi dol the authors draw the

r. The injection of lip dol not h mid to the healthy let g and prod en immed at unto varieract on manor armail The I mod I per 185 lo get at the bealthy ling than in the disc of ling. I have of true claimant in out the normal a depathol real lung is influenced by the formal and pathol real lung is influenced by the health ling. The disappearance of the I prodof from the lung. The disappearance is the I prodof from the and other factors.

2 Lipiodol produces no immed ate react on in emphysema putrid bronchitis c u cong tion

or most cases of non specific asthma. Its perse tence an I rate of disappearan e in these condite as are the same as in the normal lung.

3 In non tuberculous ab cess of the lung no immediate reaction h s been noted foll in the injection of lipicodo by the bronch scop emethod The lipicod usually per its fo a week or t o and so not i rectly benefic a

4. In bronchiectas, no immediate react in his leen observed follo in the inject in of 1 pol 1 When the lipio fol tennans entirely e. affired to the the distances after by cough may empty themselves very quickly occas null in t entrour hour in 1 bronchiectatic cavitic with stass the presence of lipio lol was still in text of mind after the inject on The rate of di appearance of the 1 pio lol is influence? by the post on of the bronch after the inject vity, the size of the distation the caliber and flevibility or rigid by of the bronch at tubes and the nature of the mous membrane for bronchicutas? I pio lol is not infrequently been for bronchicutas? I pio lol is not infrequently them.

s In primary carcinoma of the bronchus with abscess I prodol per 1 tel two m riths athort puducing any ill effects

6 In pulmo ary tulertulo is a the ext start typ and in tub realion p enumaissize a time and its pers tence produced ill effects. In it is condition the injections are contain a cated. Select disease of the sing at type of pulmonary tuber uil is not usually suitable for injection and ion it how any react. The per tence (by disease the single pulmonary tuber of the single person and in it is now any react at the person and in the single person are single person and in the single person and in

7 In pulm nary festulæ and in chronic disc e of the pleura lipiotol produ es no reaction a drarch persi is for any 1 ngth fume 1 the presence of emprema pneum thora or an a lin rent diaphagm with 1 the re-presence of the production of the rate of disappearance of the tyro lod is delayed.

8 Roentgen gr m sh eithat over 50 per cent of the pat is all wed ome of the Ipoli No

od sm wa noted

o k entg n logic lls the peen e of lpr d la
th lung may re emble an urresol el pression a r

an e ulat sormilary tubercul
of in the he lith, long of the ty fieral bis
loud long self in min diste untoward react
and is persited poduc long tudinmatery
lesson list persitence resis the mal and the

Moshe H P Fise L ng Ab ex and Lipids 1

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Mashe II P Five Ling Ab ex and Lipids i

I i P v 3

The a thirt put whe ment night h

the next in factor tin this this

the nie tin fao pe the itit to its produced the print of a regional long staces. Sature ton flgt uge este than abserts pictures. Experiments are now being a risel on pictures.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Strangulated Hernia with Sub sequent Complications J Med Cacina t 1927 1 65

2 E E

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1

The patient whose case is reported was a man 45 years of age who had a strangulated complete inguinal herma on the left side Operation per formed at the end of eighteen hours was followed by a cood result. The patient was out of bed two and one half weeks later In the next two weeks he had three attacks of severe abdominal pain During the third attack a diagnosis of intestinal obstruction was made At operation the left lover quadrant was ven rigid and intestinal adhesions were found ex tending over the entire area from the midline to the site of the former operation After careful but diffi cult dissection a small abscess down in the coils of the intestines was encountered On further freeing of the intestines Souther found that a loop of bowel had been completely cut acros. The distal and proximal ends were lo ated and delivered into the wound The d stal end was as completely scaled off as if it had been done by surgery. The proximal end was sealed off with the excertion of a mall sinus no larger than a match. There were no free frees in the cavity and the area of the intestines primarily in volved in the runture was in fair condition though still somewhat ordematous The proximal end of the bowel as grasped diagonally with a rubber-covered clamp and the last 2 in removed. The distal end of the walled-off bowel was gra ped in the same manner and cut across to make a fresh area for suturing A di ect and to-end anastomosis of the bowel was done with the rows of sutures cateut being used for the mucou membrane and silk for the seromuscular coat A sm Il split tube was inserted for drainage The midline inci ion was closed around a drainage tube by tier suture according to the usual method

The convalencen e was smooth A small freal fistula closed spontaneously in three weeks patient went home on the twenty fourth day LARL R STEINER MID

Seel 2 M G Fundament | Principles Underlying the Operative Cu e of Inguinal Hernia J im M As 19 7 lxxxviii 5 9

In Seeings opinion the modern operation for inguinal hernia is not as satisfactory as is generally believed Two very important factors in the preven tion of recurrence are high ligation of the sac and perfect wound healing. The Andrews technique and the importance of restoring the transversalis fascia when it can be found are ducus ed. If the transversalis fascia cannot be found one of the three following methods should be employed to

obtain fascia to fascia closure (1) the method Andrews (2) closure of the herma defect with living sutures according to the method of Galhe and (the use of living sutures according to the method McArthur

In the cases of children and muscular you adults with an oblique hernia having a narro necked sac the surgeon may feel a distinct sense assurance if he has merely accomply hed a high high tion of the sac lionever in addition to this should always suture the outer flap of the extern oblique muscle to Poupart's ligament If the edg of the transversali fascia are available their a proximation to Poupart's ligament will give ad t assurance If the hernin is large or if it is of t direct variety high lightion of the sac alone is no means a reliable guarantee against recutten Under such circumstances the fascia transversa should be carefully sought for If it is found and t defect in it is securely elo ed the major part of cure has been accomplished. If it i not found it conjoined tendon (v hen present) or the lower ports of the rectus sheath and the red muscles should sutured to Loupart's bgament with a fascial str Under all circumstances the inner flan of the exteroblique should next be sutured to I ounart a ligame with chromic gut and when po sible the outer fl of the external oblique imbricated over this sutu The cord should be transplanted in all ca.es Wh it is impossible to imbricate the outer flap of t external oblique the suture should be dispens with the skin and subcutaneous suture being clos over the cord If the herms is very lark or has recurred seve

times it will be necessary to adopt the Gallie te midue and neave the defect in the abdominal w with numerous strips of fascia lata The article includes seven illustrations of ter

maue CARL R STEL KE 'II D

Reynolds R P and Ferguson J A Echinococc Cyst of the Omentum C I in M A s 19 7 X 1 2 8

Hydatid cysts of the omentum secondary by datid costs elsewhere in the body are not comme and primary hydatid cysts are very ra e

A man 20 years of age developed an abdomin tumor which was considered main nant because the severity of the symptoms and associated chena With the orset of intestinal obstruction laparotomy was done This revealed hydatid to of the omertum to other signs of involvement could be discovered The patient has now remain well for over fifteen months In the author s opini this was a case of primary hydated cysts of t SHILLIAM E SHACKLETON MID The diagnosa is made in part from the chical history since the absence of a history of corrosive poisoning will eliminate the ordinary fibrous stricture and long duration of the symptoms greater difficulty in the swallowing of fluids as compared with solids and the age of the patient will often help to exclude carcinoms. The rontigeographic appear

ance is characteristic. The treatment must be palliative. The introduction by Hurst of a mercury filled rubber tube is an advance in the treatment. The tube should be passed first by the surgeon under the fluorescent screen. The patient may then pass it himself after thefore reck meal and then at such gradually first before reck meal and then at such gradually

increasing intertals as necessary.

The best operative procedure is the Mikulica method of performing gastrotomy and dilating the cardia with the finger. This is much safer than crs phapogastrostomy.

HOW RD A MCKNIGHT M D

MISCELLANEOUS

Hedbl m C. A and Head J R On the Use of Liplodot in Relation to Tl oracle Surgery A 5 g 9 7 l x 194

The authors review briefly the history of attempts to introduce contrast media into the broachail tree and cute the warness objections. On the horizontal contraction of the history of th

In lung abscess the authors experience has been the same as that of Ballon who has frequently experienced difficulty In getting the oil to flow into the cavities and has noted the frequency of broachiectasis secondary to abscess. The authors have used lipiodol routinely following operations for abscess to determine the possible presence of such a secses to determine the possible presence of such a

residual bronchiectass

In chronic empyema it has been found of great
value in demonstrating the extent and location of
the cavities and the presence size and location of
bronchial fatular communicating with them. For
this purpose it is superior to all other contrast
media because it is non unitating to the bronchi

In pulmonary tuberculosis the authors have used it with hesitation fearing that it might activate the process. Only whin the information to be derived seemed especially necessary has it been injected in these cases and then only in the chronic fibroid types. In the latter no ill effects have been noted.

The oil a mixture of 40 per cent metallic todine in poppy seed oil is non irritating to the tiss es and can be introduced into the traches and air spaces nathout anduring rough or causing barmful effects It can be introduced into the traches in a number of different ways The technique of inj ction through the cricothy roid membrane the method with which the authors have had the greatest e penence is described in detail. The oil is injected through an ordinary to 18 Lucr needle from a 20-c cm synage The skin abo e the cricoid cartilage is anasthetized with a fe drops of novocaine and the needle attached to the syrs ge then slipped over the top of the cri coid into the traches. No preliminary anasthetiza tion of the tracheal mucous membrane is necessary The oil is injected in amounts range g from 10 to 40 cem and by the patient's position is made to flow by gravity into the portion of the lung to be exam ined In over 500 injections made by the authors there have been no serious complications

During the period of incomplete gastric tetanus which may occur during hun er several changes were observed including circular contractions of the antrum a general shortening of the stomach and a wave distribution at times suggesting peristal

the activit

Rhythmic changes in the fundus described by

certain physiolo ists as the cause of the tonus changes yet not observed. These tonus variations appear to be due to partially relaxed outraction was es occu ring for the most part in the lower portion of the stomach. Adoren Hart of MD.

Giffin S D Pylo c Obstruction in Infants Ok

The author cites the 1 ork of everal investigators on the subjet of pylanes ob truction in inflants Opinions of fire as to the cau e in 1 mechanism of the condition. The ob truction has been attributed to (1) congenital hipertrophs of the pylonic must delive the condition of th

The microscopic pathology of pylone stenosis on sts in a hyperplasia of the unstriped mucle cell of the circular coat with no increa e in the connective it sue. Cross by the pylonus spepars as a cart lignou rounded obve shaped tumor mass overed by normal peritoneum which is sharph demo cated from the distribution of the complete distribution to the complete distribution to the connection of the connection

The outstand ng symptoms—pers stent project le vomitin ible peri tall c stomach wa es ob ti natec ust pation marked loss of weight and at times

a palpable polore turn r—a e discussed in detail the seemed more impt nt it to the author to deter me the degree of ob tuch in than to attempt to differentiate better stene is and poloro pasm. The degree of batru tion c a be determined in mor taken from the weight present of steologistic cases for mit here in trend the amount of steologistic cases for the result in the differential passed the quint to dismutus and the amount of passed the quint to dismutus and the amount of catheter.

In the d agno is the condition must be different at tated for multi-d and lobst ut on in the committing of bile due to de el pimental defects such as trans understand to a such as trans a short mesent room one ental narrowing of the plor liment C open ental narrowing of the plor liment C open ental narrowing of multing it unchanged for 1 ocurrons, the used of multing it unchanged for 1 ocurrons, the used of multing it unchanged for 1 ocurrons the used to multing it unchanged for it ocurrons that it is a state are indugent in advanced on the case to the control of the control of the control of the control of the control in the profit of the control in the control of the control in the control of the control in the con

Treatment whether medical or surgical should be instituted early before the infant becomes marantic Medical treatment can be continued if the child shows a normal gain and if the retention of food i not too great burgical treatment should be in stituted if medical care is of no avail

In the di cussion of the medical treatment the value of breast milk replem hing of the ti sues with fluids thick cereal feedings refeedings stomach lavage before meals and the administration of atro

pine in small doses is emphasized

The operation of choice is that device I by Ramm steel. The author prefers local anasthesis. Emphasis is placed on the pre-operative routine of gubing fluids and sodium hicardonate and glucose solutions for at least neith four hours before the operation. The postoperative treatment 1 important I toon ists in pushing fluids and the use of glucose per rectum and for the first feedings. Recognized prediction that the procedure of the procedure of

'diffin reviews thirt four cases Of the sixteen patients who received medical treatment fourteen were cure'i one died and one was not benefited Of the eighteen who received surgical treatment five ded The causes of death were mara mus and shock in to o cases and peritomit double mastoid tits and congenital symbilist no ofe ca exact.

I four firestrick MD

Loewenberg W The Bactericidal Action of Gas tric Juice Free from Hydrochloric Acid (Ueb r b t n de W Lug des 2al -a ur l e Mag sattes) hi ii h 9 6 1808

The author cites his previous investigations which and cated that the duo lenal secretion soon kills inoculated micro-organisms such as colon bacilli enterococci and streptococcus iridans article he reports experiments which indicate that the gastric juice also has a bactericidal effect in le pendent of its hydrochloric acid content. Previou ly he established clinically that the absence of hydrothloric acid from the stomach does not nece sarily mean that colon bacilly are present. On the other hand he states that he has never found colon bacilli in a stomach containing hydrochloric acid In cases of ordinary uncomplicated gastritis anacida colonic flora are often not to be found in the stomach he ther are they in evidence in the absence of hydro chloric acid in ca es of severe gastro intestinal dis turbances especially tho e due to infective processe in the intestinal tract

In an examination of twelve specimens of gustine up example, in reaction from Islaine to neutral a distinct bacteriodal effect upon colon bacilis via doubt in seven. The remaining five specimens were obtained from three cases of periodous anemia one see of cholecystits and one case of disturbances due to adhesions following appendictions. Of lour teen specimens of gastine juste tested with regard to their bacteriodal properties following neutralities on (firming) a distinct bacteriodal effect on colonir of the control of the

Basset A Serious Postoperative Intosication f om Eth r P uted into an Encysted Focus of Tuber culous ferit nitis Re Ope atl nand frans fusion of Bio d Reco ery (Int cato p t pritt grep del tir ere las niver de pest niet bre les eky the fit tia fi sngune ge) B # e t n) B ! | 1 ml Sc 1d 11 925 ls

In a lat arotomy on a noman 23 years of age ether was poured into an encysted focu of tub reulous peritoritis The operation as f llos ed by symp toms of shock with a small rapid pul and the comiting of black comities. The author attributed there symptoms to acute intorication of the liver from absorption of the other When the abdomen 1 as re opened a small quantity of the ether 125 I und in the pocket The sponging out of this ether sceme I to cause slight impro ment. Aft r bloo! transfusion reco ery vas rapid Basset concludes that great caution should be extress d in pouring

ether int ith al Immen after operations In the li cuss n of By et's report Satte said that he believes there I no special danger in the u e

fether in this way exc I tafter em cency operation on tatients in a eri us con lition

Out care aid that ether hull no er be use? in this way in tubercul u peritonili opin on the rapid recisery in Bas ta ca e indi c ted that ther na no sen us lesson of the later So w \ age! has in a commenting layage

of the at tomen ath ether he had empha ized that the other huld b st need out carefully before suture of the abdomen B s et erred in leaving the ether 13 the po ket

here's I that he doubted wh they the fluid f und in the racket at re-operat a was ether as ether would he e apported before the s cond

operata n Timery empl sized the value of lavage with ether in per tonitis an I in general in all cases of pus in the abl m n He ca el attention to the fact that at fr t almost all cases of d flute purulent peritonitis ere fatal but after the intro fuction of wick draininge the mortality w s reduce I to 66 per cent and sin e the introduction of ethe lavage it has been redu ed to from 5 to 20 per cent. Thi ry a that not more than from 150 to 00 c cm of ether should b u el He doubts whether the sectius symptoms in B seet s cas w due t the ether as tubere I us m mbranes apsorb 1 9 slouly II emphasiz d that the ether should be spong dout before the ab lomen is cl sed

CHEVRIER said that in his op in the amptom in B sset s ca e nere t o tran i y to ba been du to h er intosication. He a cribe them to intra ab lomiral hypergree re pr d ced by vaporisation of the ether in the cle ed can it v causin stass and effu i n of blo d nto the co sty He beh es t possible that if the patient a as in the Ir notelen burg positi n there s as 1 sl ht tor ion s hich was mai ta I by the pressu e of the g s In or let to correct any torsion he al a lys h s ; tients flat after the Trendelenburg po ition before he closes the He suggested also that by ch mical action the ether may h se cau ed dilatan nof the small of ceral ves els He believes that ether lavage is valuable in ca es of suppuration but i tuber culo is he only expo es the viscera to the sir and lavages a th very hot phys of gical salt solution. In some cases this treatment may be supplemented by ultravi let itradiation

MAUCLAIRE reported that several years ago be Poured bet been 100 and 200 ccm of ethe into the pouch of Doughs after an operation and at the end of three or four econds respirati n and the h art beat stopped and the patient could not be reli ed

Since then he has only spo ged the pelv; with

Sponges net i ith ether Basset replied to Chevrier that when he re-ope ed the abdomen seven hours after the operat on be did not see any distention or other sign of abdominal hyperpre ure He has often sutured the abdominal wall when the patient was in the Trendel pour post tion and has never been aware of any unfavorable effect from it SIDREY C M RCA MD

GASTRO INTESTINAL TRACT

El en D The Anæmia of Cancer of the Gastro Inte tinal Tract Based on a Study of 1874, ses Cnd nlf 4 s J 19 7 x

In a study f 187 cases of c neer of the gastro intestinal tract the author lound the sowest I dite counts and hamoglobin v lues in patients with cancer of the stomach and those with invol eme tof the n nere and biliary tracts. This fact he attni utes to the pe sistent hamorrhage and the impair ment f nutrit on due to the gastric ach hal s ch

The ca es of cance of the stomach superimpo d up n an old ulcer showed a red cell count above the

a trage Adeno arcinoma seemed to be assoc ted with a mor marked anamia than scurrhous or colloid can cer pr bably because of its great ree dency to cause

ul eration eith r rad othe apy nor operation changed the P CL W SHEET MD legree of the anx r

M tin C L and R ge F T Hu ger Pain

notting their own experiment I investiga Pts to son hunger pain the authors briefly revie the In this own in estigations the o time of Le stomach was re orded on r entgenogram made du ng hunger sensat ons with the stomach di tesded with an air filled balloon. The findings are summ rized as follows

The primary or e s tial element in the painful hunger c attaction appears to be a comp ete circular astriction in the lower third of the stoma h of tie upper stoma h may or may not occur simultaneously th this antral contraction

The effect of surgical duodenal drainage was the automatic substitution of the jejunum for the duode num The regurgitation of alkali into the stomach was thereby precluded and the acid chyme from the stomach was emptied into a substitute duodenum which contained no alkaline bile and pancreatic suices for neutralization Under such circumstances subacute and chronic ulcers formed at two sites (1) in the inte tine in t distal to the pylorus at the point where the emptying acid chyme impinged directly on the mucosa and (2) on the lesser cur vature the part of the stomach receiving the most mechanical trauma during the emptying of the acid chyme An analysis of the conditions present and the factors operating emphasized the importance of the chemical and mechanical factors in the etiology of chronic neptic ul er

Ro nteenological stidy of experim ntal chronic I welve normal dogs were given opaque me is the gastro intestinal tract then being studied with the \ rays The observations made in these examinations were similar to those made in the ex mination of human subjects Following the study of the normal tract six of the dogs were studied for ulcer formation following surgical duodenal drainage The ulcers were subacute and chronic and appeared as in the duodenum of man just distal to the pylorus Th ec were typical of the chrome type with leep craters Roentgenograms of each were obtained Two were subscute les ons suspected at fluoroscopic examination and not definitely shown in the roent genograms. One was an acute ulcer and annarently developed and perforated suddenly after the last roeptgen ray examination. In one of the chronic ulcers the healing process following gastro enteres tomy 1 as observed

By this series of investigations the feasibility of roentgenological study of experimental p-ptic ulcers was demonstrated

was demonstrated

Notor changes in the gastr c musculature could
not be dete ted as etiological factors in the pro lu
tion of the ulcers

The he is go feether sented p plue elect after given it in y in experiments on nine dogs the ulcers following the operat on for surgical duodenal drainage were carefully measured at exploratory lapa otomy and a gistro enterostomy desgined to empty the greate part of the gastric contents through the new stoma was then done

At necropsy performed at various intervals after the g stre enter to me we idence of healing as present grossly and microscopically in all of the assert into a performents the ulicers headed entirely and a one experiments the ulicers headed entirely and a one experiment a deep chronic ulicer i can in diameter and 0 5 cm deep healed almost completely in susteen days following the pastro enterost comp. The rate of healing vas a directly propor the size and chronicity of the size and the length of the size and chronicity of the size of the long and letters new ulicers formed in the effects to oppose of the gastro enteron caused ones and the length of the composal ulicers new ulicers formed in the effects toops of the gastro enteron caused ones.

The surgical duodenal drainage resulted in the shunting of the alkaline bile and pancreatic juices away from the stomach and the intestine into which they emptied In the formation of chronic ulcers after the estable hment of this drainage the presence of unneutralized acid chyme in the stomach and the force with which the highly acid contents emptying therefrom impinged directly on a relatively circum scribed area of the intestinal wall seemed to have an important part Following gastro enterostomy the main burden of emptying the stomach of its highly acid chyme was assumed by the efferent loop of the gastro entene stoma New ulcers promptly developed at this site while the original ulcer relieved of its burden promptly healed The prob able bearing of the same factors on the etiology and treatment of chronic peptic ulcer in clinical cases is mentioned

kwartin B and Heyd C G Syplilitic Ulcera tions of the Stomach 1 h S g 19 7 ziv 566

Gastric syphilis is not frequent and its clinical and histological recognition by no means simple. The authors report three cases of peculiar ulcerations which resembled specific lesions but were later proved not to be

The presence of a marked gastric deformity on contigenological examination and its complete dis appearance under antis sphillist treatment must be a crysted a prior as evidence that the lesson is sphillistic but the authors co tend that the deform I/D must be distinct such as an buigflass contract the continuation of the con

The histological pi tures of tuberculosis and sphilis of the stomach simulate each other so fre quently that the differential diagnosis is very difficult. Definite proof of sphilis is the presence of the spirochates in the tissues

Luil C Robitsher M D

The authors report four cases of intestinal intus suspension in children in which characteristic roent gen pictures were obtained by the use of opaque enemas. A central non filled area in the intestinal lumen corresponded to the intussis column.

In three of the cases reduction was obtained by increasing the pressure of the enema without aness thesis In one case this was done cunintentionally and probably incompletely but in two it was done purposely and completely

This method of reduction is less severe and easier to control than the external manual method of reposition (Monrad) and should be attempted prior to operation in every case

bacteria was noted in seven. In three cases the secretion investigated reacted differently. In four instances no bacterical effect upon colon bacidi was noted. In every instance enterosocia swell as hamolytic streptococia and streptococcus vindanwere kulled by these gastine jusces. Staphylococi were found to be a little more resistant a bactericada metal metal properties of the state of the metal properties.

With regard to the nature of the bactericald assumes Lowenberg believes he can rule out the action of pepsin. The bactericald action of the gas inc juice appears to be very intense comparative experiments with 0 s and 0 s per cent carbolic acid upon ecolo bacterili sho ved the gastire juice to have a upon ecolo bacterili sho ved the gastire juice to have a bacterili sho set the gastire juice to have a bacterili sho set the gastire juice to have a bacterili sho set the gastire juice to have a bacterili sho set the gastire juice of hydrochloric acid following a test breakfast quicker destruction was achieved than with neutral purchased the strength of the strength of the gastire juice.

Miller C Gastrle Hemorrhage Brit M J

The sadden rounting of a large quantity of blood occasions great constituents in Painting of little tarry stools etc may be equally ser our but do not produce the same irrepression on the patient or his lineads. Advances in gastine is regery have proved that many ideas regarding gastine disorders are erroneous Gastine harmorthage results from many conditions other than gross ulcer. Many large chromic uters early for years without bleeding and never have had any gastre uterstand.

Whenever gastric harmorthage occurs it is usually due to ulcration with loss of tissue. It results from digestion of the stomath wall by the gastric jute Gastric jute does not digest healthy mucous membrane Gastric ulcrations may be multiple and minute or microscopic. Among the various causes of gastric harmorthage are trauma with resultant baction of corrosus poisons cirrhosis of the lyatronia of corrosus poisons cirrhosis of the lyatronia training and the substantial production of the gastric visual suscential methods of the control of th

or without hietic ulceration of the gastic mucosa Chronic gastine ulcer of the callous type involving the lesser curvature and olten adherent to the panear cass may erole the splene ven and cause copious harmorphage Carcinoma of the storm of the storm of high control of the storm of the case o

At the onset of the symptoms no sun, cal measure should be considered. The patent should be placed at rest and given morphine at once. A certain degree of collapse lessess the chance of further harmorrhage. The majority of patients with gastic bleeding recover under medical treatment Repeated bleeding recover under medical treatment amount of the contract of the pathological changes in the tomaria nature of the pathological changes in the tomaria nature of the pathological changes in the tomaria of the contract of the co

Morton C B Observations on Peptic Uice 4 S f 10 7 lxxx 2 7

Morton describes a method of product g chronic gastric ulter d'seus es the étiology and repo is a foentgenological study of experimental chronic ulter and his findings with regard to the healing of experimental peptic ulter after a gastro-enterost my has been performed.

A method of beduring I once pattine it or the strotage. The author found that ulcers produced experimentally in the stomachs of dig saver gross I and microscopically the same as the ulcers found in the stomach and duodenum of man they were subscutte and clot her included the orn tenders to heal and were included to perforate They apper rel also to have a selective affinity if the parts of the stong to that are shown churically to harbor peptic ulcers most frequently

The experiments to evened were performed on four groups of dogs. In those of the first groups and ulcers were produced by excising small areas of murean in the storach and though our the abornal continuity of the places in the anal being left mint. All of the ulcers hereder is july all the mint. In the control of the control of the places hereder in july all the places are apply than similar areas on the greater cur year.

In the dogs of the second group the operation for surgical duodenal d sinage was perform d S bacute and ch once rejunal ulcers were found in all

In the dog of the thi dg oup small areas of ga tri m, nos were exceed and surge; I doudenal drainage was established at the same time. All area showed delay in h time, It so per cent of the polouged experiments substitute and chronic gastine utlers formed in arras of the lesse contact with the similar areas on the greater cur ature in the same stom chis became he led

In the d gs of th I u th gr up areas of gastim mucosa we e exceed at a second oper ton two weeks after the establishment of duodenal d a na e The resal's were similat the sent the preceding gr up except that subacute a d ch once ut ers of the lesser curvatue we e found in 6 5 per cen of the prolonged experiments. rupture is followed by death relatively eldom in the cases of patients who were not purged before their admission to the bo pital. Apparently the laity are asy et unaware of the grave darger of adm in tering castor oil and Epson salts so abdomiral pain.

With regard to the question of early and late operation Hornat tarts that when a patient especial va child is very ill with a rapid pulse and orderst perforation it is good judiement to keep him under observation for a time if the infection shows any te ideep; to lorshize Becau of the drinner of a dden and fatal collapse a large abscess which can be felt on v. tall or abdominal examination should

be metely punctured and allowed to dram slowly. When you do by meet a dram. When continuing toon of the personeurs may one occurred there is no personeal tollet that is sale enough to warrant closure without dramage. Dramage should be established in even case of perforations and e ere care of gangereous appendix. The still dramage to the law many objection also de rest care of gangereous appendix. The still dramage to the law many objection also desired a first and the still dramage to the same of the still dramage to the same when left in place for time or len days no harm when left in place for time or len days no harm when left in place for time or len fasts.

Pulmonary embolism 1 a mo t dangerous complication. It occurs no t often between the sixth and mith d vs after operation and u will, in septic cases. Gastric dilatation demands early and re-

peated gastric la age

The t extiment of perstonitis consists in Fowler's position the \text{ inholding of everything by mouth the administ ation of morphine to control pensal six gastite lavage when nete sary proctochs or hypodermochis to supply an abundance of fluid and the administration of soda and glucose to control acutosis.

LIVER GALL BLADDER PANCREAS AND SPLEEN

Ed ly J. Healed Mult ple Ruptures of the Lix r with Injury of the Intestine. A Contribution on the Di gnos on a Treatment of Subcu t neous Rupture of the Live. (G be lite multiple Lebe cupture but D mil 1 t. ng 1 et ra ge x D on 1 x nd The pe de be taoen L be rupt 1) D 1 k Zich f Ch. 19 0 ct. 10

With the eport of his experiences in four rases the author re-uses our present know ledge regarding subcuta cous rupture of the li er. The most important pr di posing f ctors are pathological changes in the li er which not only increase the intuitivity of the organ but cause it to project beyond the costal arch and thereby render it more exposed to the effect of traums.

The symptom are at first those characters to of rupture of the 1er and later those of internal kern orthage and anæmia and their sequely. The abdomen is e trumely tender and in the tight hypochon drum below the hier the pain 1 particularly severe and occasionally radiates to the right should for The peritonell irritation caused by the estagning

blood and hale causes barcou h belching and nausca. Under the right octal agrid the rightly of muscular defects socied in the rightly of muscular causes of the right of the right socied in the right socied with the right of the right of the right of the right of the according colon and the blood collects in the right of the account The most unfavorable sign is brady cardia coming on after several hour in spite of intreasing auximia.

The only treatment for rupture of the liver which may be fattle baccuse oil is one effects or its complications 1 a timely operation under other the narross. Because of the danger of necrosis even large portions (up to one quarter of the organ) must be removed if they are separated from the rest of the liver. Hamorria from injuries of the convex surface of the heire is checked by Catgut it atures and tanning gause tampon. Il temorrhage from the upper surface is checked by platts surgire, with the use of fascia and omentum tamponade with mall pince of muc the organization of muc the organization of the conditions. The contract of the conditions, and continue to the conditions, and continue to the conditions, as well as the condition as the condition as well as the condition as the condition as was the condition as well as the condition as usually much that he conditions, as usually much thater.

Martin L Estimation of the Pancreat c Enzymes and the Value of Such Determinations from a Clinical Standpoint 1 h 1 i M d 19 7 2003 343

The estimation of the 1 increase enzymes is claim d by the author to be of great importance in the differential diagnoss of choledocholuthasis and called control of the head of the pancreas. It may possibly, serve all o as a diagnosist method in cases of chronic pancreatitis which may be benefited by the u e of pancreatite extracts.

In cases of low pancreatic acti 1th as ociated with gall stones or a chronic bilary infection in which treatment for the hepatic condition fails to cause improvement cholecystectomy should be conidered.

Extract activity 1 usually greate t in that part of the duodenal contents which is contained in the darkest bihart secretion commonly known as B bile When it 1 not it is such that it can be taken to represent the functional activity of the pancear When this portion is turbid because of the precipitation of blue pigments by hydrochloric acid the use of clear A bile is sugget ted.

Itter then via heentifugualization icem of this little than the second of the second content of the s

is placed in 19 ccm of buffer olution Ph and 1 ccm of the 10 mixture in 20 ccm of the ame buffer Th makes a 1600 dilution. These two dilutions are sufficient.

Into three Folm and Wu blood sugar tubes are placed respectively 1 c.com of justiced respectively 1 c.com of prefix of the measured 1 from an accurate 1 c.com pipetite of 1 c.com forth and 1 c.com of the 1 foo dubtion of 1 standard buffer and 1 c.com of the 1 foo dubtion of 1 foo dubtion from forth 1 for 1 forth 1 fo

Al arez W C Reve se Wave in the Par Pylorica of the Stomact J t M f 1027 Ext 1

Reverse waves have been seen in the pars pylorica of the stomachs of rabbits suffering from mild dy namic obstruction of the small intestine produced

experimentally

Similar observations have been made in man In both man and rabbits the reverse waves have been associated with others running aborally It is pos the that the e reverse waves account for some of the distress and feelings of indigestion complained of by persons with duodenal ulcer and intestinal obstruction

Floercken II and Steden E Contribution on the Development and Treatment of Peptic Ulter of the J junum Following G stric Operations of the Ba is of 15 Own Lap tient Operations of Twenty Two Other S rgs as B it has of Twenty Two Other S rgs as plant and Twenty Two Other S rgs as pplant jeun gent as pen in a h geren I taken g n u d c Umf g b y Chrugen jeun Karl K. 1500 st 73

The author discusses the development an I treat ment of per tie ulcer of the jejunum on the basis of the literature hich he reviews briefly his own experience and the replies to a que tionnaire se t to twenty two other surgeons. He draws the follow

ang conclusions

When gastro enterostomy is performed for picer of the duodenum in men of middle age the oc ur rence of peptic ulcer of the jejunum 1 ithin the first two years after the operation is to be expected in about 3 5 per cent of the cases. In the formation of a peptic ulcer of the jejunum onstitutional factors are of importance. When anterior gastro enterostomy with the Braun m thod of anastomosis to done the incidence of this lesion increase to 16 8 per cent

In the localization of a peptic ul er of the jejunum the clamps used in the formation of the anastomoris seem to be of importance The attempt should be m de to avoid the use of clamps especally in the retunum. When no cl mps are used the morbidity due to peptic ul er of the jejunum is reduced to 0 3 per cent

The pylone exclusion of son Er elaberg should be discontinued Frimary extensive resection in duo denal and gastric ulcer does not al vays protect against the formation of a pept c ulcer of the jeju num but is associated with much less danger of this

sequela than gastro enterostom

The treatment of pepti ulcer of the jejunum must be surgical. The procedure of choice is rad cal re ection When this is impossible a jeju should be done New anastomoses may not function and are therefore to be avoided Lapecially in ca es of high gastro-enterestomy the attempt may be made to perform a palliative resection of the pylorus and antrum according to kreuter meth d HAM (2)

Ballin M Di erticulit s of the Colon Am J S rg 1927 1 3

A true diverticulum is usually congenital and its pouch is composed of the entire vall of the viscus A false diverticulum is acquired and its pouch is formed by hermation of only the mucosa through a weak spot in the muscular coat of the viscus When a diverticulum is formed in the intestines stagnation of the intestinal contents may occur and give rise

to inflammation Divert cula occur more frequ ntly in obe e per sons than in thin persons and in males than in females. Not all diverticula cause sympt ms. In the colon diverticula occur most frequently at the rectos gmoid juncture Deaver does not accept the theory that the entrance of the blood vessels neak ens the intestinal wall sufficiently to allow herma tion The author attributes diverticula to a repl ce ment of muscle to sue with fat and regards constipa tion as a contributory cause

The dagnosis of dverticulity f the colon is based on a history of colicky pain in the left 1 rr quadrant of the abdomen associated with rigidity fever and leucocytosis The sigmoidoscope is act very helpful as it re eals only the inflammation of tle mucosa \ ray exam nation although somewhat dangerous in acute cases may outline the sa Llates made three or four days after the onaque meal often show small sacs which in the first pl tes ere obscured by the bowel

Eight of pical types of sigmoid divert cultis are discussed and illu trated with case reports including acute and chr nic conditi hs abscess maligna cy

a durinary complications

Chronic inflammat on surrounding the divertic ulum is often mist ken f r cancer Follo mg # preliminary enterost my the malign new seems to predi pose to cancer. The cancer does not grow to ard the bo el I men and therefore cau es no mptoms of obstruction or filling defect in the The author believe that most Try pct re ves co enteric fistulæ are due t divert cultis and are inflammators of malignant

In ca es of inflame i diverticulum of the s gmo d adh rent to the bladder gangrene of the scrotum may be caused by the e t a a ated urme which follo s definite o te l ng the fasc al planes in the perincum

The treatment of diverte It may be medical or surgical Inch on se th condition ; r hered by a lo es due diet a d colonic ir igations Acute cases requir surgical drainage or re ection LAR II T \ LNB CH MD

Howard C The Appendix P blem Tod ; Co

Howard empha zes the fa t that appendict cours with conside able frequency as a sequil of tonsill to II has known of pe for tion of the append in the a es of seven persons r ce tly tre ted for abdominal groppe He confirms the old observation that operation for appendents with try tota in the serum and so long as we do not know the mechanism of anti-trypsin formation in the serum it will be irro sible to determine whether passive trypers immurization in acute pancreatic necrosis is possible or why it is impossible

LOSIETELY (7)

Inlow W DeP Traumatic Abscess of the Spleen 1 # 5 £ 10 7 Istav 368

Traumatic abscess of the spleen is rare. In the available literature the author has been able to fin ! the report of only twenty three cases These and

a ca e of his own are reported

The confitton is caused b injury to the spierie region with contusion or supture of the st leen. The ab cess results from the secondary infection of a hamatoma and contused tastes to nutter !> necrotic mas es often results in splenic sequestra

The course of the condition may be divided into three stages (1) the stage of initial injury (2) the intermediate or cryptic stage and (3) the terminal

stage or stage of extension or rupture

The cases fall into f ur pro ps (1) tho e in which the injury is mo e or less I mite i to the splenic area (2) those in which the injury to the splenic area is a sociated with other injuries (4) th se in which the injury is associated with symptoms in licating early operation and (4) those in whi h the condition is latent

The diagn is may be difficult. Many case, have been recognized only following rupture of at overation or autore) The treatment is surgical rogno is is gra e. The m stality ha been es per cent. The mortality in cases perated upon was 38 per cent and that in ca es treate I medically exclu ! ing latent cases 100 per cent Latl disgress and timely irter ention hould improve the results

HERRY O McPurrerse M D

MISCELLANEOUS Dea er J B Cli leal versus Surgleal Abdominal

Diagnost Am J 5 1 1927 1 09. The author discus es at length the relationship between the modern methods of laboratory path ological and clinical diagno is and the methods

that were necessary before the various laboratory sciences had advanced to their present stage of accuracy and importance

of the observer. The history in pection and pul pation of the patient and common sense were the only a fjuncts at hand But as seien e has a hanced se has the necessity for the e ucation of the chrician The changian must be a good that il sist brochem it path logit and the bie The present status ef chrical Larno is reaches its her It when the nowers of the old time chini ian are then led and ir trove ! by the never methods of laborat ty stuh row

available from we the laboratory methods of

Before the day of su h develorment clinical

diagnosis depended upon the trained sen es the

accumulated experien e and the natural acumen

hagno is fr m the m fern clini ian and he could in no may app each lie present accuracy of obser However implicit faith in the lat rat ry to the exclusion of the clier r etlo of it eno is is not to be de ire ! Hements of error cannot be ! scourte! not can if e personal equation of the e making the

Not only is the laboratory of speaked by and in dagn a but its importance in letermining the operative risk is bee ming m re and more mirked lil ad chemi try toentger logy tenal function I to it etc are all of in hippensable with the scientife

otwithstar ling the ail given by the laborators a keen of servat n careful I tory and mirute thyse al examination can never i se their Il time impo to ce In the inferentiation of abd miral con itions ruch can be learned by the pull ating han I the point of greatest ten ferne s the ra hate n of the pain the position of greatest muscle spasm the lirection of fad ng or ircrease in the ten I reess etc. The differences in the histories of high ar 1 low intestinal obstruction acute paretral tis a l'acute appendicitis are in m at instances plum to the Leen practitioner Laborators in the 's rever can replace keen observation but with the allition of the modern scienti ic metho is the art of diagno is is made easier Our tresent quality of lag ostic accuracy depen is upon the proper currelation of symptoms with correct cl scopatrol great to te

The value of su h mo fern fragm 'te is directly reflecte i upon the patiert Larl er and better dae noses make for better prognoses the reduction of morbility and the len thening of average life

expectancy Marginett Dave & MD alkaline copper sulphate of Folin and Wu are added and the test made as for blood sugar determinations

In normal cases the digestion in Tubes 1 and 2 will be practically complete. Tube 3 is the one to read. It this reduction is low it will be safe to take the 1 200 tube as representing the true pancreatic activity. The miligrams of dextrose produced from 5 cc m of starch should then be calculated.

To arrive at a unit of comparison it is necessary only to multiply the amount found in Tube 3 by 100 that in Tube 2 by 333 and that of Tube 1 with a dilution of 1 20 by 33 For example in Tube 3 the colorimetric reading of standard × amount of glu

cose in the standard X100 = milligrams of glucose
ANTHONY F SAVA M D

Bernha d F A Method for the Recognition of Acute Pancreatte Di ea es and fo the Dete mination of Their Course (Lin Meth de ur L kenn ng skut r Pankrea k andu gen u d u Unters chungea thre we treen \ la (s) D tock Zl L f Chr 19 6 c 11 53

For the diagnosis of acute pancreatitis in seven cases the author admin tered 50 gm of insulin sugar by mouth and then determined the blood sugar content. A positive result was obtained in all

In disease of the pancreas which has its most marked effect on the metabolism of carbohydrates the blood sugar level is increased. The increase is determined by giving 50 gm of glucose in from 100 to 300 c cm of water after previously determining the blood sugar and then making a second blood sugar determination at the end of forty five minutes and a third at the end of two hours. In acute pan creatitis the blood sugar level is markedly elevated after forty five minutes as well as after two bours Distinct hypergly camia is present also in cases of acute pancreatic disease which run their course without the appearance of sugar in the urine Other conditions in which it occurs are gastrie and duode nal ulcer and diseases of the biliary pa. sages These may be followed by pancreatic disease Operation on either organic system may be followed by fatal pancreatitis. When pre-operative tests show a high blood sugar value the operation should be as con servative as possible YOR CRUE Z (Z)

Bailey H The Clinical Aspects of Acute Pan Creatitis B / M J 1927 357

The salient features by which acute pancreatitis can be differentially diagnosed from other intra abdominal disorders are summarized as follows

The patent is usually fat. It appears that obesity definitely p edisposes to the disease

The condition is recurrent

3 Rigidity of the abdominal wall is almost completely absent. This is due to the fact that pre-

operative general peritorities is absent
4. Cyanosis is a common symptom. It is most
marked in the cervicofacial region and is due to the
severity of the t xemia.

5 The pain is very severe like that of perforation and radiates to the back.

6 Lowas mydratic test. Four drops of feets 1 to con adrenal southon are instituted into con upactival sac. After five manutes four mone drop are instituted. The purples are then examined at the end of half an hour. While ad enainh also not fet upon the puple of a healthy person in acute parceasities a positive reaction namely dilatation of the pupil is often obtained. Frequently the dilatation is eccentric and oval. It may be due to mits tion of the solar placus by the swollen pancreas. The entire autonomic nervous system is the dyperadered very sensitive and the adrenalin debonits repediered very sensitive and the adrenalin debonits.

the ocular sympathetic
7 The p esence of a palpable abdominal mass
is rarely noted Obesity may prevent the detection

of a pancreatic enlargement

8 Turner a sign—a local discoloration of the
skin usually in the loin. This is seen in cases of two
or three days stands g and is due to the direct
attion of the pancreatic juice which estens by way
of the retroperationeal tissues and passes by the most
direct route to the surface.

9 Not uncommonly the diastatic index of the urine is rai ed from the normal 15 units to 15 of more

nore

10 In a small percentage of cases the unne
contains sugar

The mortality of acute pancreatitis is very h gb. It will probably not be lowered until the cau cof the condition has been conclusively elucidated. The riddle of all acute intra abdominal inflammatory disturbances will probably be solv d when the key is found to the commonest—acute appendicits.

SAMUEL KARN M D

Harms E The Production of a Passive Imm alty to Tryptin Into leat in in Acute P creatic Necrosis (U ber d Erz ugu g e p 5 Gifti staket g g d Tryp miti bu kut n P akr k t) Bail ll Ck 9 6

The author carried out experiments on trypian immunization based on the work of on Bergman and Golecke One series of dogs were treated with trypian before the experiment and in a second group which were in t so treated pancreatic necrosis was produced and serious from the pre-noisy tractions was injected.

xx vut 48

is spite of the successful results obt ed at the active tryphin immunization the supections of the serum of the d gs previou ly treated at the tryphic anied to as e the lives of the dogs in which savie plancestuc necrosis was produced by cuttories and the control of the produced by cuttories are considered by cuttories and the control of the control

In conclusion the author states that the reason why passive trypsin immunization is not successful is related to the problem of the formation of a ti aborde S and Wickham Y Radiotherapy of Cancer of the Cerrix of the Uterus (R 1 the p lu ner du col je luté u) Cy éc t bit 1976 x 307

Laborde and Wickham classify cases of cervical cases into the following four groups: (1) operable cases in which the lean it limited to the cervical cases at the borderine of operablish; in which there is in valou of the justa uterine issues but the uterus is still mobile (3) cae in the third stage in which the parametrum is invaded and the uterus is feed the condition being inoperable and (4) very advant el cases with invasion of neighboring

organs cachexia and sometimes metastases in

In a total of eighty names as available for stati tical purposes cure listing for periods ranging tempts are stated in the state of the state of the state tenty four 12 per cent). Of the five case, in the first stage all vere cured. Of the name cases in the first stage all vere cured. Of the name cases in the first stage all vere cured. Of the name cases in the first stage all vere cured and of the fifty two in the third state: 36 oper cent vere cured of the twent there cases in the fourth stage nome

was cu e i

Uterovaginal a hum t extinent can be u ed only in cases in high the cancer a stri th limited to the ervict and the parametr una not inflirated. It is impossible to kno that there is no di semination ta a stance it hould always be preceded by roent gent eatiment. Inentrating roomingen treatment is

is I to terils e the symphosite t ibutanes of the carear region The auth re-simply a Gaiffe on tant tension apparetus (o coc ofts) and irradiate four large felds it anterolsteral and it on potero lyteral at a mistance of a com and a that filter of it mentions of a summun groups mention from a copy of the companies of the compan

When the rationt's undit on all we it the dose h ulibegiven na perio i filme a tex eeding ten to fifteen fay If it i extende lover a longer period the er ix le n t eccive a sufficient dose an I later radium treatment i r ndered more difficult. The radium treatment hould be given at once after the r entgen treatment rafte a rest of not more than forty eight hou s The usual techm que an la filter of to a mm of platinum are employed. The dose r nge f m 40 to 50 m ler large d es are use les ni may be nju i u The ra hum i radiation is go r u er peri l of from four to t sents days The best length of time fr m fou to six lav auth rs do n t use entgen th po al ne except in very a hanced on o in whill treatment is only pallist ve

This have no colled that in operable cases uter again i um therapy lone or combined ith roots the raps ges just as good results as surger in that ith methol may be used. They form thele that peral on was indicated after rad um there just a end of the junion that the radium therapy of troys the cancercell in the uterus.

and ubsequent operation does no more than remove a uterus that is already free from cancer and does not prevent glandular recurrence

Infection often occurs in radium treatment of the cervit. The authors have found that polivaled vaccine is a valuable preventive of infection in such cases but loes little good after the infection has once begun. Audiex of Money W.D.

kimbrough R A Jr and Norris C C Factors Influencing End Results in Carcinoma of the Gerv after Irradiation 1 J Ob 1 c Gr cc 917 x 279

Certain factors influence the end results in car cinoma of the cervix treated by irradiation

The fat spindle or basal-celled tumors appear to be the most malignant. The best immediate results were found in the basal celle! type while the best end or ults were obtained in the prickle celled tumors. The high grade of malignancy of the basal celled tumor is probably offset by its greater susceptibility to irradiation so that the en! results are practically the paine in all of the histological type?

Is would be expected the best results were obtained in the cases in which the carcusomatous growth was limited to the cervix. The ultimate mortality increased in direct proportion to the extent of the lisease at the time of the first treatment. Of the cases of recurrence after radical hysterectom, 12 8 per cent were hung and well five years after

rradiation

The papillary form of cervical carcinoma gives
a somewhat more favorable prognosis than the

inflictating variet;

The best re ults were obtained in patients be twen the ages of 50 and 55 years. The patients un ler 40 and those over 65 years of age responded poorly to treatment.

The total number of five year cures in 201 cases man 137 per cent. The stage of the isease at which teatment; instituted is decidedly the greatest progno lie factor in cancer of the cervix and is more important than the histological type of the growth

whole in reviewing a number of cases in which the uters had been remove by railed hysterectiony users ago stated that carcinomic of the cerus possess and that arcinomic of the cerus possess that different goods to the symptoms and the rapidity of extension into the troad of gaments being different in each group. In the first group are the familiar caudiflower types of carcinomic. The second type is the so-called endoce vical or infiltrating carcinomic. The third on its one which begins in the portion or heart the external o and grows in varify, destroying the cerus intis course of development.

Histologically four types are recognized The first type which; least malignant is the old fashioned sequences carcinoma. The second type is the alenocarcinoma. In the third group the trassic tional epidement of the fourth group the predominant cell is the fat spindle or basslecil.

E. L. Consext. MD

GYNECOLOGY

UTERUS

Rich rdson E H Interp etation of Abn rmal Ute ine Bleeding S th M J 1927 tx 190

The author classifies abnormal utering bleeding into the following three main group the obstetri cal the non obstetrical and bleeding due to asso crated causes

In the obstetrical group bleeding is caused by uterine mert a (subinvolution) injury to the birth canal retained placenta placenta prævia (premature separation) abortion (threatened and inevitable and incomplete) hydatiform mole (chorio-epithe homa) and ectopic pregnancy (bicornuate uterus) Injury to the birth canal includes that of the ordi nary type that caused by rupture of the uterus and that caused by deep cervical teats involving the circular artery and vein

Uterine bleed ng independent of pregna cy may

be caused by
I athological physiological conditions such as endocrinopath es an I functional bleeding at puberty (endometrial hyperplasia of characteristic type) or at the menonause

2 Infections of gonorrheal purperal or tuber culous origin 3 Injuies mechanical (erosions) chemical

thermic and electrical or those caused by roentgen or radium irradiation

4 Pareign bodies

Malnosit ons

6 Neoplasms of the uterus ovary and tubes both benign and malignant

7 Remote causes such as a ute sufectious di eases constitutional di eases (anæmia hæmo phil a syphilis diabetes) organic diseases of tuber culous cardiac renal or hepatic origin chronic intoxications from alcohol phosphorus or lead and emotional or vasomotor disturbances

C tHD is MD

Rosenz e M Syncytial Endomet it sand Syn cytioma Am J Obit 6 Q 7 X1 563

Two cases are presented of t ansition I fesions in the chorioma group syncytial endomet ti and syn

cut oma The les ons a e essertially ber The treatment of syncytial endometritis i con servative curettage being the method of choice in

the m jority of cases review f the literature shows that there i n ta g neral cognizance I these les ons and further that many cases r ported as typical mal gnant choric epithel oma are r ally of thes transitional types Without the recognition of the syncyti I or tran s tional gro p the malignant tumors ca not be interp eted properly. The incidence of typi al ma

lignant chorio epithelioma or choriocar inoma is much less frequent than has been suppo ed E I COR FLE M D

Lenz M Radiotherapy of Ca cer of the Cersix at the Radium Institute Parl France im J R 18 # 1 19 7 XVII 335

Some of the a pects of the treatment of carcinoma of the cervix uters as carried out at the rade in institute of Pans France are I cussed in this report. A thorough cl nical and bacteriological examina

tion 1 made in all cases suspected of being careinema of the cervix and biop v is don

Epiderm id carcinoma at any stage is treated by radiotherapy only Adenocarcinoma is considered rad ores tant and in early operable cases hystere tomy 1 do e three or lour weeks after radiotherans Papillary types of growth are considered more favoral le for adiotherapy than offitrating types Deep infection in the form of parametrit's toel vic cellul t a contra indication to rad otherany None but local rad otherapy is rel ed up n at the In titute The uterine nd vag nal canal are used

as sites for the radium when the disea e is local d to the cervix. When there re extensions to the parametria or pelvic el ads r entren therapy pre cedes the currethe any In ree tge therapy small dose of highly filtered ta s are go en twee daily for te to t enty fi e

days A 200 kv transfermer machine 4 ma 2 mm zinc 3 mm AL a d 3 mm ood filter 50 cm focal dista ce a d usually ix or more overl pping 15 by 15 cm fields are used Accurate descript ons are er en of fiel is and total dosage of r entgen rays and of the applicators and technique used in the r hum

Both vaginal and ute ine applicators a e l ft in place for five to even days these bing remove? clean ed and a dou he gov nonce d ily The ute ir applicator conta ns 33 3 mg radium el me t and deli ers in five d ys approx m t li 4 000 m brs I the vagin lapplicator 26 66 mg r dium element are u ed nd leli er n f e davs 3 168 mg hrs Thus a total of 7 00 mg hr 1 u ed th c rbined ute ne a i vaginal appl ato only employing 60 mg of radium Fr m 7000 to 8000 mg hrs

By the method used at the Radium I stitute the chances of infectio when the urad t n is con tinued for s x days ar min m ze ! Of 362 cases proved to be carein ma by h tolog al xamination hich were t exted and t aced only six p tie to ded of infect n ninet, fi e (6 2 pe cent) were als e and fre from I nical evidence of the d sease ! September 1925 All cases were tre ted d 1 the years from 1919 to 1923 A J was LARRE M.D.

seems to be the cor e t lo age

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Viiller \ F Pregnancy Following In ers on of the Uterus im J Ob t G3 t9 3 7

The patient who e case is reported was a woman sign cars of age who gave birth to her first child in Varch 1921. The labor was entirely normal every first the third size. E Difficults in the delivery in the placenta was followed by complete inversion of the unerus. The patient stared that she bled very profusely and that her condition a so-considered experimental continuous and the state of t

On O tober o22 she entered the ho pit 4 com planma of this di charge a persistent dragging sensition in the pelvis and frequent headaches On October 17 10 4 a shightly mod fied Spinello operation was performed Con alescence use un eventful and the pittent was discharged from the hospital two necks lster

On O toher 8 19 5 she gave birth to a normal male child we hing a little ver 6 lbs. The labor was entirely normal and listed only five and a half hours Examination of the cervix and ute us imme

dately after delivery e called no eviden e of the operation. No abnormality of the anter or uter ne all was noted and no cicatrix or abnormally thin area tould be found. Re examination to weeks later reveal d nothing abnormal. The puerpe ium was uneventful in every respect and the patient

was di charged at the end of two weeks
In fifty s \u03c4 cases of ute ine inversion p emancy
occurred once o oftene after the original inve sion

The 'p ell ope ation probably gi es the best is of any op ative p ocedure. The chan e of recurren e of the cond tion s approximately 44 per cent when manual correct on is done hereas it is ery sight when orrection is effected by operative measu es Adherent placenta is common Post pa tum hamorth g occurred in 14 pe cent of the cases at the time of subsequent confinement. Sepsi occur d in all two and death in only one The d ger of uptu of the uterus n subsequent preg n note foll ing operative correction of the condition h s been greatly exaggerated. Cas exa se tion seems unwarr nted but mo e appli able to ca es in hich red ction va flected manually than in the cope ated upon ELCRILVID

The auth r clas ifies the toxemias occur ng in the last trimeste of penancy as eclampsia pre

eclampsia chronicnephriti eclampsia superimposed on chronic nephritis and low reserve Lidney

The majority of cases formerly designated as pre-eclamp is are no planet in the cate, ory of low re ere kidney. Only about 5 per cent of the ca e - those in a thich the patients a cutely ill with marked bypertension albuminum a majoriss and registering part of the registering part of the case of the case

In the group of lon reserve kidney fall the cases with a blood pressure rarely exceeding 130 op of a bammoura ranging from a trace to several graint per liter and subjective as implicitly exceeding 150 per liter and subjective simplifies of many and headache which are benefited by bed rest and a restricted due and rarely if ever end in celampsia After deliver; in such cases there is a prompt return to normal. The con lition under the previous pressure of the previous pressure of the previous pressure.

Different ation between low reserve kidney and chronic nephritis and between uncomplicated celamps a and nephritis engrafted on a chronic nephriti is often quite difficult before delivery and sometimes is impossible until tecovery en ue postpartum studies are made or an autropy is done

TABLE I -USUAL RANGE OF CERTAIN CON STITUENTS OF THE BLOOD

No figures are given in Table 1 for low reserve kidnes but as the latte condition is accompanied by no appreciable change the data in the normal column are applicable to it With it e exception of the nephritic type neither

pathological study nor chemical analysis of the blood and urine give any clue to the ultimate etiol gy of eclampia. The author ascribes the conduction to the elaboration during pregnancy from an unknown site of some chemical substance y hich profoundly disturbs metabolism and produces certain standard organic lessions.

The most effective treatment of eclamp t is pre vention by in a high at prenatal care and alert

Martioff k. II. Carcinoma of the Cervis Uterl Its Operative Prognosis A Clinical and Patho logical Study to Asse tain it e Prognosis Fol lowing Operati in for Estirpation of it e Malig mant f ocess B IJ h s II ph : II sp Balt 1917 vl 160

In a previous communeation the author reported a pathological study of 387 cases of cancer of the Johns Hopkins Hoppital. The present study is a based on 143 of these cases operated upon during the 373 car period between 1509 and 1000 In every ce as padiposerections was performed with the 8 movial of a portion of the vagina and vide para metrial dis cetton. The patients all left the hospital

ahve and their present status is knot neverth in the se of some the after having been traced for five years ha e been lost track of and have therefore been

ls das five year ures
From this study it would appear that a compara
tively accurate postoperative progno is can be
rendered in ases of can er of the cervic uten proviled the it size removed at operation is studied
this sufficient care a dithe operation is performed
by a surgeon adequately trained in the surgery of
the female pelviss

C & IL D + S VI D

ADNEXAL AND PERIUTERINE CONDITIONS II I knecht C An In pe able Ova lan Tumor Treated by the Method of E G M yer im J

R kg 1 97 33

In the treatme t of inoperable ovari n tumor Holsknecht u s the method of E C Mayer He d es not di uss the method except to state that lovits u e the effect of the roenigen rays is augmented by a combination of roenigenotherapy with the

ntravenous injection of osmon a protein free destrose. The sae i reported of a young Roumanian 20 cars of I who had had an ovarian cyst removed from the left side in July 1923. The pathological coput at that time was pap llomatous cystadeno carcinoma Recurrence in the summer of 1021 to the right side was treated with two ents of free it gen irradiation without any benefit In November 1025 a second laparotomy was perform of Four inters of blood tinged assit c fluid were removed. The remaining overly was pitable and found to be The remaining overly was pitable and found to be peritorious. Certain area of the intention were studied with the timers.

In January 1926 Holzkne ht was consulted with reference to the advisabil ty of giving furthe radi ation Be ause I the poor response to the previous roentgen therapy he decided to try the meth d of E G Maver I no d ys preceding and immedi ately before each raliation to cubic centimeters of osmon solut on contain ng 33 per cent of protein free destrose was injecte l'intra enously One half the skin erythema dose of medium hard roentgen rays was given through four large portal of entry to the e tire pelvis. Following the course of tre t ments the patient impro ed sympt matically d the pelvic tumor which had filled the entire pel is was reduced in size and became slightly mova e Treatments by the method i E & Ma er e repeated aga n in Tebruary 1926 and the pate t returned to her own cou try She continued to improve and in M y 1926 the consultin gy ecolo go t believe I that the tumor was operable. At ope a t on it w s found that the tum s we e enti ly isolated and that a hysterectomy could be pellormed All the tumor mass were separated and caddy and completely removed Th pathological report of the tis ue vas that the tumor masses ere cystie with smooth a terio surfaces. Mic osc p ally ti ere vas not a sigle s n in any of the ti sues examined to suggest a m lignant tumor or ca ci noma

The e tent and rapidity of re ponse in this case is e pecially nite esting because to previous ef radiation had been without benefit. Hole is the his obser ed this rap dit; of response o the part of the timor only since the employme to id at trose injections.

Stroganofi's cases were of a mild type and occurred in women who were awaiting delivery in his clinic and were therefore treated immediately after the occurrence of their first convul ion

ALBERT W HOLMS M D

Fairbairn J S Acute Abdominal Emergencies
Complicating Pregnancy and the Puerperium
B 1 3f J 9 7 456

During pregnancy certain emergency symptoms may arise which make the dia noiss and treatment of an acute abdominal condution very difficult. The diagnoss 1 is most important. There are no doubt many cases of pregnancy in which the pain nausea and vomiting are caused not by the pregnancy but by gastro intestinal troubles catterly independent of it. On the other hand the symptoms of certain grave gastro intestinal fessions may be attributed to

grave gastro intestinal lesions may be attributed to pregnance much time being the eby lost before a correct diagnosis is made. Whenever a surgicial emergency arises during the course of pregnancy an experienced obstetrical surgeon should be con

sulted

Some of the more important a gas and conditions equiring investigation are vomiting particularly late in p egna cy jaundice with epigastical pain and vomiting acute cholectstitus or gas stores maked and continued abdominal pain due to ace detail concealed hazow hage ectopic p egnarcy acute nerrobussis of uterine fibroids strangilated oxanacy, set or packtus and acute pain with lated oxanacy, set or packtus and acute pain with the context of the context of the context of the to acute appendicus intestinal obstructions or serritorius.

When once the di gnosis of an abdominal condition 1 made the treatment is the same as in the absence of pregnancy. Emptying of the uterus is a positi ely contra indicated particulal ly in the presence of infection. Interference with the pregnancy is justifiable only if some operative procedure is contemplated which would be rendered too difficult by the precentant uterus.

The postoperative management should be the same as in the non pregnant state with the addition of all measures necessary to save the pregnancy

H. RVEY B. MATTERNS M.D.

In a series of cases of acodental hemorrhage re-wed by the author there was no case of about the conceilment althou h in ten cases there was a section to conceilment althou h in ten cases there was actinase conceiled bleeding. Twenty was of the worden we e-multipara a deven were primipare multipara hours somhous. Securities of the morrhage multipara hours and the section of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage in 74 per cent of the cases the hemorrhage and the per cent of the cases the hemorrhage and the per cent of the cases the case of the per cent of the cases the per cent of the per

Among the pred spost g and exciting causes were toxxmia of pregnancy endometritis a blow a fall

a sudden shock a severe attack of coughing or

The maternal mortality was 264 per cent and the fetal mortality 8; spec cent. There were twenty eight stillburths. One babs born alive a monster livel only five minutes. Of the five infants born alive and discharged from the hospital in good con alive and discharged from the hospital in good con ditton three were born at term and two at eight months. In at least tharteen of the cases the pregnent of the properses beyond the eighth month Maceration had occurred in at least seven of the babies.

A noman with slight bleeding during pregnancy should be put to bed and kept under close observation. If the bleeding continues a modified de Rubes bag should be introduced and delivery completed with the forceps or by version if ne es ary. In some cases the author has u ed pituliary extract to

advantage

It bleeding occurs during the first stage of labor a large of Ribes hag should be introduced and delivery completed by forceps or version. The author agrees with Holmes that the safest course con ists in protecting the membranes until labor may be expedited. He believes that to keep the membranes infact is to preserve intra uterine pressure and that sagnal packing has no value not posses of by the hydrostatic bag and therefore should be discarded for the bag.

When a sever external or internal himmorine has concurse before labor or in the first stage of lots and the cervit shows a dilatation of two fingers are the author advises ceasers need to two fingers the author advises ceasers need to not the introduction of the de Rubes bag follow d by forceps extraction version or crain oform. In severe cases with little or no dilatation especially when the patient is a primigrate creater as exterior in the best procedure. If section cannot be done the use of the de Ribes bags and visable of the description of the descript

So called uteroplacental apoplexy does not require removal of the uterus

Hysterectomy may be neces any when the uterus relarges and bleeding continue in spite of packing after the uterus has been empired whether by cassarean section or otherwise Brodhead makes rout ne u e of the todolorm gauze uterine tampon believing that it lessens the blood loss after deductry One cubic centimeter of pituitrin is given in every one cubic centimeter of pituitrin is given in every sease as a routime measure. ROANNO S COM MD

Hartemann J Therapeutic Abortion (Le malaise de l vorteme t th r p utique) G; é t obst

The c us a gre t deal of confusion at the present time with regard to therapeutic abortion. Formeit! it was permitted only in cases of severe harmorrhage which threatened only in cases of severe harmorrhage which threatened the of the mother but the indications have severe gradually, extended until oddy it it considered permissible by some physicians not only as a means of saving the mother is lie but also of safeguarding her health and even for social or eugenic reasons. However many consecutions

vigilance to recognize e rly the pro fremal symptoms and in titute early treatment of the various

types of toxemia of pregnancy

In the true pre-ecting, is the outliered of conul ions and coma as turn ment and the part of
usedom sto forestall the eclampite attack affor the
usedom sto forestall the eclampite attack affor the
storest with the rifer of the patient the object of
success the true attack of the patient the object of
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the cervar is soft or patiently that else
that I read the Storeshold treatment and as soon
as the patient has a me un le its naturoit influence
meretts a buy suff the arrest the unif the cervas is
tigal a treas section as a safe to preferable
without an unit but name that

In neghritic toxemia r chroni nephriti complicating pregnancy it pregnancy should be terminated a nasth c nitis nice measers us

I as ree re kin with tractic tenturies in column is reen in first sussair is toom reaction in the tractic tenturies in column is reen in first sussair is toom reaction equals 1 tracted by let bed rest and observation unles as in the or similar three is an ease extant in of simptoms when tremature ful riss along.

In a cateful contention on the period can of the texterment of cturie form, a ly immediate debt end to all mind for agrand cut in a outment force the with choloroform and their and in plemental produces the solid like and in plemental produces the solid like and in produces and in produce and the prod

t On alm ion latient placet in a quiet darkenel room and it turbel as littl as po lite I spe ial nurse on lut continu u is unt I the ja cent is I fritely out of coma One lourth ar in (16 mgm) f m thine given his termically tonce fatient cathelerize I examin I me fi alls an I of stetrically and the tir 200 cm unier mir u oxide anosthe in the n cious latter t place i un one si le with the fiot of the he'l elevated a long as coma cersists Mucu waffelfr m the phary ne as it collects Wate gier ir el while the pit ent is conscious. If she cann t frink na count of coma or lack of de re the intraven us a lmini trat nos sooe m of spe cent gluen e of ition i con i lere ! Ifeli ery felayel until after the ern ; full blate t and then flected by the implest operat c mea s les ontaneru tel v i cema imminent No chi rof rm u el Clem cal as istants n tihed as soon as the patient is a limited in or ter th t the n e sary of servation can be made

2 One h ur after admissi h II the patient comatose 2 gm of thi ral h) rate give in co cem of physi logi al od um thom les illusion and the same quantity of milk is rectum II (he pat ent

1 conscio the chloral may be admini tered by mouth in 100 c cm of milk

3 Three hours fter dmi sion One fourth grain (16 mg m) of more hine given hypo lerm cally 4 Seven hours after a lm ss; n Two grams of chloral midrate gi en a. leveril e l abox

5 Th teen fours after a lm n One and fee tenths gram of chi ral hy frate given as de cribe!

6 T enti one hour aft raims a n One and

6 T ents one hour aft raims n One and fve-tenths gram of chi ral he i ate given as de scribe!

7 for eral frections. While estimpt p to its art under treatment the as it lants and nurses it in it in the greatest possible quiet. Call are seen into or the greatest possible quiet. Call are seen into or the ection in excess of rooten must not be employed. No change t be made in the che full arles such orized by Dr. Williams or Stant r.

This routine I firs Ir m that of Sir Janon no cally in the omi in facilities or min the use of gluoner jections and the route emiliar in the I is the sufficient of the I. The with trawal of blood in a tior three jeu i but soft in to of this sufficient quantity of live lear route determination and in engaging.

TABLE RESULTS IN 275 CASES OF ECLAMPSIA

tto up t December 11 1911 165 from 1912 to Al r b 31 19 6

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TABLE 3-65-CLITS IN ANTEPARTUM IND

\(\text{Vide 40 ? 54 to 30 }\)
\(\text{Vide 40 ? 54 to 30 }\)
\(\text{31 4 75 to 30 }\)
\(\text{Til 85 0 7 250 }\)
\(\text{Til 4-FETAL MORTALITA}\)

Will me attributes Stroganoff mortalit of the

A Powers deficient disproportion present con dition due to primary mertia secondary mertia (dr) labor) a large baby or malpresentation

B lowers efficient disproportion present con dition due to occiput transverse or posterior po ition

or pathological pelvis or soft parts L A combination of 1 and B

In the usual case of brady tocia the labor shows bitle progress in the first twenty four hours pains vary from those which sub ide entirely to contractions which become more frequent and painful alloying the patient little time for physical and mental test Physical exhaustion may result with actilosis as demonstrated by an increase in the pulse rate dry ness of the skin scantiness of the urine the appearance of albumin acetone and di acets acid in the urine slight fever and perhap a sudden rise in the blood pressure Not infrequently just as lels ery is imminent or accomplished con vulsions with or without coma may begin

The diagno is is based at first on the patient's general physical construction and pelvic anatomy and capacity and during the later months of preg narc) on fetometry It becomes certain when the normal time limits of labor are approached without

sufficient accomplishment

The prognosis for the mother is good. All of the mothers in the cases re newed left the hospital alive The fetal martably was \$ 8 per cent and secondary

chiefly to 120r us operative measu es

The treatment consists primarily in eliminating for caratrean section those patients which would undoubtedl fall in the bradytocia class. It is hardly advisabl to watch a pregnancy go beyond term and allow a fetu to attain such a size that distoria is mevitable. In primary uterine mertia stimulation of the ut rine contractions is indicated Tumultuous contractions or pains demand sedati es Cervical dilatation may be accomplished with the metreury n ter Ma ual filatation is more successful in mul tiparæ than in prim paræ. If manual dilatation is indicated in the case of a primipara the author prefers Duchrssen's triple incisions. After complete dilatation not more than an hour and a half should elapse before the onset of the second stage of labor With the cervit dilated the end of labor is in sight If spontaneous dehvery does not occur we are con fronted with the possibility of dealing with any con dition in the entire field of operati e obstetri s

MUZL I FOGEL ON M D

Toneff E. Atropine Morphine in the Treatment of Rigidity of the Cer is (L trop n morph n I stat m nt d la ngid te du t) Gr ! ! 384

Cases are seen ery frequently in which dilatation is ery slow and painful in spite of good contractions an I normal or nearly normal pel ne measurements This right, t due to pasm of the os Aronig says that death of the infant during labor is caused twice as frequently by anomal es of the soft parts as by anomalies of the pelvis

In cases of cervical rigidity the author uses either atronine or a combination of morphine and atronine in the form of suppositories each containing o or gm of morphine hydrochloride o 03 gm of extract of belladonna and 2 gm of cocoa butter He uses the combination more frequently than the atronine alone He reports two cases in which he gave injecmgm of atropine and eight others in tions of which he used the suppositories He has employed the suppositories in many other cases but these are described as typical The treatment fuled only in the case of a primipara with a rachitic pelvis with a true diameter of less than o cm In one of his cases the rigidity was not affected by deep chloroform anasthesia but yielded promptly to the atronine

It is the author's practice to give atropine mor phine at once as soon as rindity is demonstrated If there are clinical reasons to suspect beginning rigidity but the contractions are still sufficient he waits about two hours. He prefers the combination of atropine and morphine to morphine alone because it acts also on the spasm and pain which are asso

ciated with the rigidity

OBSTETRICS

The dose that can be used varies in different cases Parturient women can generally stand much he her doses of these drugs than others. The author has en from a to a ctem of morphine and from 6 to o ctgm of atropine within four to six hours. He has never noticed the slighte t ign of intoxication in either the mother or the child. He believes this simple remedy should be tried in all cases of rigid ty before operation is considered

AUDRES G MORGA M D

Cornell E L Fo ceps Delivery S g Gyn Oh 1 102 xl

When instrumental extraction is attempted the cervix must be fully dilated the bag of waters ruptured the baby abre or only recently dead (within five minutes) the head engaged the mother in good condition so that a general anasthetic is not contra indicated and the pelvis large enough to permit the passage of the child

The second stage of labor should not last over one and a half hours without definite signs of progress and seldom over two and a half hours when progress is made. The technique of preparing and cathetenzing the patient are described in detail

A careful vaginal examination is made two fingers only being used in the ca e of a primipara or multipara with a tight vaginal orifice If more than two fingers are introduced the perincum should be stretched by ironing out with the use of green coan as a lubricant or by doing an episiotomy If four fingers or the whole hand is inserted through the unprepared vaginal orifice visible of t visible tears may result

If the child's head is in the transverse diameter the author places the first finger in the upper lambdot I suture and makes pressure upward in a circular manner At the same time the other hand placed on the fundus of the uterus presses down

physicians are in doubt as to just when therapeutic abortion 1 justifiable and when it is not

In France the las does not permit abortion under any circumstances Est the case with the most definite indications. It fails cause with the most definite indications it fails are large and however when there is probable as the cations and it is deemed advasable by those physical cans. The Church of course is absolutely opposed to abortion. If nas formerly more liber all into respect and the author expresses the hope that its rules may again be relaxed to permit abortion when aboother undextunes are presented.

The laws of different countries vary from the seventy of the French law to the lanty of the Rus sian law The latter permits abortion on the basis of little more than the desire of the mother The author believes that the French law is both too severe and too lay It is too strict in that it forbids abortion unde any circumstances and it is too lax in that as it is disregarded it may be stretched to cover abortions performed for insufficient reasons Hartemann believes that the law should permit abortion on absolute indications and on certain relative indications the latter strictly defined. In cases with absolute indications a consultation of two phys crans should be ufficient but in cases with relative indications there should be a consultation between the patient's physician looking out for the patient's a terests an official physician with the social point of view and a third person of either the medical or legal profess on with a sort of regional jurisdiction AUDREY G MORG & M D

LARGE AND ITS COMPLICATIONS

Wieloch The Replac ment of Amniotic Fluid After Premature Rupture of the Amniotic Sac (De Fru hiwas r reatz n h orrect g m Bl sen spru g) Z nl lbl f G) ck g 6 1 816

After the author's investigations in the normal third stage of labor had shown that the retractive processes in the uterine musculature can be inhibited by relatively slight pressure the procedure of Bauer namely the replacement by physiological salt solu tion of the amniotic fluid lost by premature rupture of the amniotic sac was again adopted For this purpose a metreurynter resembling Bauer's balloon as constructed This consists of a Duehrssen bag through the afferrent tube of which is drawn another and somewhat narrower rubber tube with its open ing just in the center of the base of the balloon with out p ing beyond it The balloon is inserted in the same way as an ordinary metreurynter and filled with soo c cm of sterile saline solution and through the middle tube a quantity of sterile salt solution up to 500 c cm is injected into the uterus

Following a discussion of the various reasons why the Bauer procedu e was not generally adopted at the time it was suggested the author reviews the adv. ntages of the method described

Seven cases in which the latter procedu e was used are reported. In two there was a prolapse of

the cord with cephalic presentation in a name pieves. In one case there was prolapse of an amount per such expension of the presentation of another commendation with prolapse of an arm in a narrow pelvis and in another a low position of the placents with cephalic presentation and a narrow pelvis. Two water cases of cephalic presentation in a narrow pelvis which accompanies vert of 8 and 8 5 cm respectively. In every case the expend on of the bullion was followed to the presentation of the properties of the presentation of the presentation of the presentation of the placents of the presentation of the presentation of the placents of the presentation of the placents of the placents of the presentation of the placents of the pl

Of the seven children one died half an hour after birth from intracranial hamorrhage attributed to the extraction through the natrow pelvs (conjugata vera 8 cm.) Another child suffered 4 actor 3 of the humerus and ferum rs a result of difficult extraction. The six surviving children were discharged in good condition.

The procedure described is indicated when (i) there are conditions directly endangering the child such as intra uterine asphyxla with only slight dilata tion of the cervic as in prolapse of the cord (2) com plications arise which make spontaneous deli ery very difficult or impossible (pronounced weakness of the labor pains after premature rupture of the ammotic sac prolapse of an arm with cepha c pre Sentation posterior parietal pre entat on and trans verse position of an undilated cervix) and (a) whe disturbances arise and timely version and extrac tion in the interest of the child without injury to the mother is the most sparing procedure and other methods of delivery such as cresarean section cannot be considered WILLIAM (G)

Ho ner D A Bradytocia A Study B ed on 500 Cases in the Chicago Lying In H sp t 1 S t Gy t & Ob t 19 7 tl 94

The term bradytoca as applied by Homric to labor which extends beyond average time limits whether accompanied by distoca or not De Lee gives the time limit as teachy hours for primpair and fourteen hours for multiprize. It is difficult and fourteen hours for multiprize. It is difficult and the labor teach to the control of the labor teach to the labor pairs.

Progressive dilatation plus contraction are the

In 1874 columents in the Chicago Lying In Hop pula there were goo as of bradyrous and in go of the their were goo as of bradyrous and in go of the column et along the column of the column of indiances tenoporable the most important are early rupering the bag of waters over term pregnancy mail according to the causes the cases may be class fed as follows

The symptoms are pain in the pubic and sacro that jo ats difficulty in walking and a palpable gap in the pub c joint The patient may be made com fortable by placing her imme liately on a Bradfor ! frame and applying adhesive pla ter strappings Later a belt can be wirn

The progno 1 1 not as unfavorable as 1 generally beleve! I roper orthone ic treatments rele e the symptoms an I favor early recovery

F L C R ELL MD

Harris J W and Brown J 11 The Bacte lal Content of the Uterus at Las rean Secti n 1m 1 0b 1 c G

This article is based upon a facteriological study of the uterine ontents of t med at fft casarean sections In nineteen elective ecti na performe l'at n appointed time title end of pregnincy and tel re the ruptu e of the memiranes and in it

e n hi h the las cal ection was performe! within four hour after the onset i labor the uteru

was unit mly to ile In f e c e n whi h the cla cal section i as

performed 1 or m re hours afte the onset of labor bacters we e al as demon trate in the i er uten e segment and in three of the c ses strepto coc IN e foun!

Smil r e it were obtained in thirteen low cervical n is x r di al ections the terine c ntents ber g terrile only in the three cales in which the operation was pirl rmed within a few hou s after the onset of laber

The e b ct 1 l gical find ngs sh w clea ly the con ery tive section i safe only when it fo med at the t me f election

While ag n I exami att n an I pr mature unture of the member nes un loud to lly nerease the hkelibout f bacte il invasion of the term the absence of these facto s in n way nsure territy

of the ut u Ele at on f the tempe at re is a valuable sign of nirapartum infe ti n but a normal temperatu e

cannot be accepted a evidence that seending in fect on h s n t al ea ly occurred

r n t

Whether the presence of bacteria in the uterine avity is due t the p and extension of bacteria n the aging o an scending inf tion from the vulva cannot be letermined until comprehensi e studies of the ba terral flora i the vag na ha e sho n whether the o currence of aut infection is p is ble

LLC

As the classical cas rean section performed on the body of the uterus a 1 f llo d by cor erva tion of the organ 1 always sociated with some danger e en in uninfected cas it h s been a com mon practice in infected case to terminate such cæsarean sections by a hysterectomy or a Porro

operation. When the is lone however the uterus may som times be removed unnecessarily. To avoil historictomy resort may be had to one of the follo ing three proce lures (1) exteriorization of the scar (2) exteriorization of the entire uterus or the lortes operation and (3) crestrean section of the I ver segment of the uterus

Both of the first metho! necessitate a second operation and must be performed in a hospital With regard to th Tortes operation Englehard recently sug ste I that the circulators di turbance can of by the exteriorization of the uterus may favor venous infection an I that in cases with severe infects a the con er ation of the uterus may lead high cannot be overcome even by to sequela felaxed by terectoms

Low expansion section has several alvantages The los position of the incision in the peritoneal cavity makes it possible to use to vier a position to is ntage. The inci ion i male in a zone that is much more resi tant to infection than that of the classical exsarean section. The incision is not so large s that of the classical crearcan section and the loops of intestine and the omentum are pu hel up by the uterus an I therefore not expo ed I en mization hich is of great alue in the prevention of secondary infection is easy hatever the condu tion of th uterus. The inci ion i in the least vas cular part of the uterus and much easier to suture than that I the classical on ratin. The car is not I turb I by contractions of the uterus as is a scar of the body of the uterus and is frmer than the latter

Objections that have been rai el to the low asarean ection are that it is more lift cult to per to m than the classical operation and may be very difficult if the lower segment is not well f rme I as the c se just before an i in the mitial stage of laber Conious bemorrhage may occur when the inci son i made and the extraction of the infant is ant to be difficult. On repeate I cresarean section difficulty may be caused by subperit neal scars and a th sion of the ba liter to the lower segment

According to I ortes the low casarean section i suitable for I ubtful cases and tho e of slow labor with an apparently aseptic course and the lortes operation is indicated for those in which infection is more probable LUBREY C MORCE MID

Du ing the year 1925 there were 32 130 living tirths and 1 300 stillbirths in the city of Detroit 2 total of 33 480 births Of the number 10 425 fover 31 per cent) occurred in hispital Approximately 30 per cent of , hite babies and 58 per cent of tol ored babies were born in hospitals Five hospitals-Grace Harper Herman Kiefer Providence and Woman s-each ha! I coo or more births during the year In these five hospitals 100 abdominal sections nere performed in 6 920 deliveries In the fourteen

and This simple maneuver will rotate the head to at least to per cent of the cases. If it does not succeed the h alis pushed up and rotated marually and then brought do in into the pelvi Before the forcep are applied the head is totated anterio ly at least to as degrees Befor the blades are locked the fetal heart rate is if termined with the use of the head stethes ope If ben the forceps blades are locked the heart tones show any change in rate one may be sure that the cord is chught in the grasp of the blales By many ulating the blades it is usually possible to push the cord a de If th cannot be don it means that delive sho ld be tapi 1

When the bab shead t brought to the perin um the pot er of the traction is lessened. The head is manit ulated gently and brought to a point where the fen stra of the blades how for about 2 or 3 cm. The blades are then remo ed. The rest of the head is the ered to stripting back the parineum with a I me heave too I ill d two. The protects the hands from freat contamination. If the utery does not contract soon the ass tant places the palm of the hand on the baby's buttocks and preses it downward in the line of the aris of the pelvic inlet It the same time traction is made on the fetal head in a dix ny ar I and back sard direction. The opera tor and the assist at mut not in unison great or ssu e mu t be av led as it may rupture the ut rus to wa s the antenor shoulder is brought under the rubis the postern shoulder is sought the index in er placed in the b b s axilly and the should restrated. If difficulty is exterienced in e tracting the body of the child be cause the anter I shouller up a es above th pubis the pa tenor fould ris grasp land rotated anteriori through an arc 23, degree This causes the interior should r to tate in a circular fashion do award into the ho lov of the sac "

If the bleeds & 1 profuse the left hand is inserted into the varina under strict asep is and a thorough e am nation is mad quickly I the vign i the lower uterine segm at and the bods f the ut rus to determine the cause of the ham ribage

centra delivered

If the bleeding e at aues after the placenta is out and the uterus does n t contract well at site authors ustom to give com of ob tetrical pitu steen I re tly nto the uter ne vall through the abdominal wall Since the administration of pitu it in in the manner the nece sity for packing, he uteru, for postpartum hamorrhage h s been r duced 75 per ce t I tpartum hæmorrhage i more ire que tin ne t e dels eries b cause the p tient is more or is exhausted and de not re pand ell t and second bec us th ordinary stimulatio and thetic elas s the ute us

liter the ham rhage ; controlled the cr t t i pected and my la erations are imm diat ly repa ed with interrupted sutures of forty-day chron cized atgut Licerations (the gualcanal are r paire) ith interrupted catgut and the ep stotomy is repaired with to continuous cateut sutures and one subcuticul r statch of sall worm gut

Llame M s int J G Ideal In e ted and Fleri g Application of the Forcep in High Fo cep D livery (I id i i the et fie h nie dans ert ppliatsh sd frep) timee 1

Very often because of the inclination of the preg t Litery or ntation of the head of the fety or other reasons the infant's head is arr ? d before if becomes engaged in the super or strait. In su h ca es high forceps dels ery is indicated and the id al inverted and texing application of the forceps should be used. This application differs fundamen t lly I om the cla scalapplication It is correct with reference to the presentation the axis of the pely s and the mechani m of deli ery. The forceps are appl 1 so th t their co cave border ; directed to ar I the face instead of toy and the occumt. The position 1 just the rever e of that of the classical Pplication This insert d apple ation is the only one that makes it poss ble to I lace the blades along the occipit mental axis of the he a presentati and the only application that makes it possible to il the had by a proper moveme tel the hard a

of the forceps The article contains illustrations of the classical and inverted application showing the ideal par eto mal r application of the blades in the latter The hardles of the i r ens will b nex the thigh of the patient on the sid of the fetal presentation and when after their articulation the handles are moved toward the opposite thigh the head is flexed. This fle ing mareuver is the cond step of the peration Its object is to displace the o cipitofrontal diam eter hich is p esenting at the strait and substi te for it the suboccipitobregmiu The head is ther oriented in the corr sponding oblique d'ameter the primary transverse pos tion be ng transformed into an oblique poster or position. By this moven ent which is called p el minary rotation the concav edges I the blad s re adjusted obliquely form ra and th conve bo ders obliquely back and facing the sacro that symphy s and the conca ity of the sacrum The pelvic curve of the forceps is there' e in proper position with relation to the an of the pel is "As traction is not made until after the pre imminary rotation the head engage in the oblique pos tion The r st of the procedure is the same as

able que po terior position with engageme t AUDREY G MO OL MD

stein 5 W Separation of the Symphy is Publishith a Report of Six Case in 1061 Boo stein 5 W 9 7 1 345

The author reports b effy six cases of sep rate n of the symphysic pub Conditions that may pred no e to it's complication include softening and re'a tion of the capsule rackits and justo m nor contr cted pel a but the true cause is improp thy directed forceps

patient was alebrile before the development of the joint condition the joint condition was already resent an I ten ler before the serum injection an i the lisplacement of the bone ends vas demon strate I by both palpation and \ ray examination MATAKAS (G)

Sinus Ti rombosis in the Puerperlum (L b Sinu the mbo e im Luen er um) & t alb! f 61 k 19 6 1 710

To the n ne ca es of sinus thrombosis in the puer p rium which are reporte I in detail in the literature t) late the uthor all another His patient was a 27 year- ld soman who for years hall had a severe f art an i lung a lecte n Iwo years after the inter ruption 1 | re nancy she sud lenly developed motor re tl nes and cluding of the sensorium with attacks of close sp sms and cramp in the extrem the Aft r a ratif increase in the severity of these sy upto a she die l as the result of respiratory failure f Il in se eral severe attacks eclamps a va su p cted and then hamorrhage into the r b al corte Aut psy di close l thrombosis f the scattal sinus and the lumina of the veins of

the pia hi h ent r it and a homorrhagic infarction f the rt vin the region of the I ft parietal lobe The ti ling explained the difficulty in the liag

The mbs are f em I mo t frequently in the proxi m I al fth f n ed vein and in th pelvic veins The mt face tral musts rare The etiology and the net fith the mbost are matters of rt lu i fthellold) a wilening of the bed of the tram the roduction of thirls in the tr m b tru ti n in the led of the stream and uf t It i e 1 t that intercurrent di eases er I iff i er a the tindency to ard throm f omen ho are markedly ь the . chl ti ra nc (on iti ns during the puer frum r | rti ul rly f orable for the formation f thr mbi OI TINL(()

II Len n Ti Milk [Luctic | perperal Women Whith Wesh 1 W nk md II 4 h > L

Ih a th r ha fr si u ly reporte I that a hen the Waser ann tin f the I loo i of the puerneral m n 1 p tt her milk hows both a po tine Wa en ni r ti sart a pe itt e flocculation te t luring the t t ! I the suerpersum In the ciws i m n ho our their infants these reac i pi ir th tith las wh reas in the ca. es om h i n t nurse their inf nts they per f om 111 r e wh n the 1 loo ! Wa ermann 1 ngt

11 ue fith I it ve rea to me to the pre ence It I with mik In the ca es of the nursing m th i spe r from the mik on the ifth is h it ca sof nomen who do not nur e the rint ats the rm a. It is evident that the go ul i n t pass directly from the blood into

the milk since cases are known in which the milk reacted more strongly than the blood or the milk had a positive reaction while the reaction of the blood was negative. The globulin content depends upon the lymphocy te and lipase content of the milk HERSCHUR (G)

Clinical Experiences in Puerperal Lehmann W Gas Bacillus Infections (kl sche Erfahrungen bei puerper len G sbac lleni fekt en) Me ch n cd Il chitch 1926 lx 111 1606

The author reports fifteen cases of gas bacillus infection from the extensive chinical material of Schottmueller In nearly all of these cases there had been an attempt at criminal abortion. In this attempt the gas bacilli had been introduced into the sagina an I uterus Corresponding to the implanta tion of the infecting micro-organisms there had resulted a local infection of the endometrium or uterine musculature or an inf ction of the lymph sessels or seins of the parametrium and finally peritonitis through extension of the infection to the peritoneum

Besides the results of the attempt at abortion all of these cases of gas bacillus infection showed as a secondary condition an injury of the blood of vary ing seventy which as manifested by a reduction in the hemoglobin and erythrocytes and a regular and in many cases marked increase in the leucocytes The e changes in the bloo l which are accompanied by absolutely typical symptoms in the skin serum and unre con titute a pathognomonic indi ation of gas bacilius infection but do not indicate the locali zation of the infection or the prognosis. It may be accepted as certain that they are the effects of a bacteræma In the cases reported gas bacilli were demonstrable in both the blood and the urine in only the blood or in only the urine

The diagno is of the localization in a given case can be made only b the most careful clinical examina tion and observation. For the demonstration of the development of gas gangrene of the uterus the occurrence of crackling during bimanual examina tion is of particular value. The absence of such crackling however does not rule out physometra

The progno is of an infection of the endometrium is good even in the presence of a severe blood infec tion but gas gangrene of the uterus and peritonitis as well as lymphangeitis and thrombophicbitis are nearly always fata!

The treatment of choice is curettage for endome tritis extirpation of the uterus for physometra an l opening and drainage of the abdominal cavity for pentonitis

HANDORY (G)

MISCELLANEOUS

Madill D G Thirty Six Years Work at the Rotunda Hospital An Obstetrical Review 1 sk J Sf Sc 192 P 54

In this report the records of the Rotunda Hos pital Dublin from 1889 to 1910 are summarized in bospitals in which there were fewer thin 1000 delivered during the year there were fifty four abdominal sections or one section for every saty five deliveres. In the entire theory of the deliveres in the entire the proposition of the section of t

A supprising variation in the percentage of sections done in various hospitals was found. In the five hospitals with more than 1 coo burths the rate of abdominal sections to all deliveries was as follows Grace: 1 to 312 Harper 2 to 307 Herman Kiefer to 1428 Providence; 1 to 2055 Womans 2 to 133 His to be noted that one of this group had an incidence of sections almost seven times as great as

another

In the fourteen other hospitals each of which had fewer than 500 d le en's the rate of abdominal casarcan or tions was as follows. Booth 2 to 133 Critical or to 471 Deaconess 2 to 73: Dunbar 1 to 20 Deleas 7 to 50 East 51e t 10 6 Ford 1 to 97 Grace Amer 2 to 63 Jefferson Clime 2 to 1 Marr 2 to 60 Met 0 e to 6 Lincolo 1 to 135 Marr 2 to 60 Met 0 e to 6 Lincolo 1 to 135 O

St Joseph's 1 to 34 and St Mary 5 1 to 24 5
In the 154 abdominal casarean sections the
maternal mortality was 13 per cent (twenty deaths)
and the infantile mortality including stillbirths and
neomatal deaths 11 per cent (seventeen deaths)

In eleven vaginal hysterotomies the maternal mortal ty was 18 per cent (two deaths) and the infantile mortality 63 per cent (seven deaths)

Of the total 154 abdominal sections forty eight were performed because of contracted pelvis and thirteen because of previous sections for contracted pel 15

There were twenty six abd minal sections for toxemias of late pregnancy and eclamps a an incidence of 17 per cent in a total of 15.1 in this group the maternal mortality was 42.7 per cent (eleven deaths) and the infantile mortality 9 per cent (five deaths)

Fourteen sections (9 per cent of all sections) we e done for placenta pravia. In this group there were no maternal deaths and one fetal death an infantile

mortality of 7 per cent

Fourteen sections (9 per cent of all) were done because of one or more previous sections: the a se of women without pelvic contraction. The material mortality was 7 per cent (one leath) and the iof n

tile morfahty 'r per cent (three deaths)
The group classed as miscellaneous included
addomatial sect ons performed i ; variou mu
ternal pathological conditions in eight cases i i per
cent) There were no maternal deaths but three
of the infants died an infantile mortality of 36 per
cent

Five sections (3 per cent) were done because of an obstructing tumor. In this group there was no fetal death and one maternal death (20 per cent)

Three sections (2 per cent of all) were done for ablatio placentw. These resulted in r c very of all of the mothers and the death of two infants (66 per cent)

The maternal m rtal ty of the high abdominal section vas 13 3 per cent whil that of the low ec

tion was o per cent
The infinite mortality of the high ablom a f
section was 10 5 per cent and that of the lo section
18 ner cent

The maternal mortality of virinal historotomy was 18 per cent and the infantile mortality 63 per

A maternal mortality of 13 per cent and an infantile mortality of 11 per cent following abdom at casaran accuso is too high. Such poor results follow the indiscriminate performance of abd meal section by surgeons who do not un lerstand or fell the indications or who disregard the cent and ca

Abdominal section is to be as ided especially: elaborations as The material leath rate of over 42 per cent in the cases revewed is pp lin h h h when by med cal are in this condition it ca be reduced to less then sper cent.

PUERPERIUM AND ITS COMPLICATIONS

Fek to A von Subluration of the Sacro Iliac Joint in the Pue perium (Les. de Sacro Iliac gle ke m W che b tt) Z 1 lbl f G k

The author reports a ca of subluction of the sacto ia co joint following a perpetal inte toon is a zo year-old prim para. The sidect mash ded slift treatment with coils god quen pramidou nurotropin aolan a d anti strept coc us 3 mm. One week after the patient had become pra in the strength of the section of the section

Nay ex m ation everl d a widenin of the night save du c joint with dis ation of the bot ends. This ac ounted for the area I nodu't in Orumonbil at on if the pel is the pain cased. One week later the pitent left her bed and fifty dislater she left the hop pital in the mental of the later she left the hop pital in the mental of the months and was not completely well unit ione year after delivery.

The author attributes the sublut on to too forceful lifting of the patient with p sue of the sacrum While septic emboling rerum sickies much base been responsible for the surp may the appears unlikely because except for one say unfurnate no puts form ton could be du overed the

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s In the lever legrees! Outra tion ample times with the gen the womant entil bering the leght reen burs my be now as root to the leight reen burs my be now as root the moulting file! I little frence! If not be no! ed until there are cline fit! rem tr! I lites When lay my! m fibites are on empleted there hubblen it in fell. Wallers it in sholl to their joutna an anilify at niche the!

6 Il gh forceps shull never be affine i until all rran ements re perfected from peration to enlarge tie selvi

With a rito the treatment feeling is it is finite that leopt the recommendation of Bumma that the uterube emit tell tweel believed that laber building er be induced in histosometric in the insuled a than in the unsule progression of the insuled a than in the unsule progression.

SILILJ For L MD

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tabular form the results of different perio is con trasted and the changes in the treatment of obstet ical pathology explained The tabl s cove a total of 34 457 obst trical cases

It is of interest that in the seven year of Sr William Smylv mastership from 889 to 896 the morbidity was 5 7 pe cent while under Dr Pure for a mastership from 1806 to 1901 t vas 7 4 per cent and under Dr Tweedy a mastersh p from 1903 to 1010 it as 64 per cent

Purefoy and Smyly regarded a case as morbid if there as a temperature of 100 8 degrees I n even one occasion For the sake of compar son Tweedy u ed the same standard but in tituted treatment in all case with a temperature above 99 degrees F for twenty fou hours and a pulse r te over 90 Hs t eatment of m bid cases consisted in a vaginal douche elevation of the foot of the bed nd purga

tion If the symptom pe sist d utenne cult re was made on the f llows gd y P ref y b ndoned the flu hi g cu ette st es ed c nstitutional tre t ment and introduced the use of rubbe glove T eedy s views on the treatment of ntract d

wer the following I The induction of premature I bo

advisable I erf ration s n t permi s ble unles the child

ıs de d 3 Turn ng should never b d ne as a treatme t for contra te i pelvi but may be performed io com pl ations of labo such p ol p e of the o d wh n associated ith cont action of the fir t or second

4 In the gre te degr es of contracti n time should not be wa ted n an a deavor to obta natural del vers

previously, and was admitted to the beopstal with humbar pint on the right and chills and a temperature of to, degrees F. The right bon was very tenl T. Cystocopy gave negative findings on the left side but on the right is it, revealed a flow of thickjust 2 citherer was left in The X-ray showed a swill done e transgular shadow region in the right renal pelv). You sone x as tenoved by reight nontheory and as decapoulated and of the comtained of the Bhod cultures showed by a child feer and of the Bhod cultures show the achildus only. A month iter a ripid secondary nephrectomy was done I perumonit developed in the base of the gright lung

but the path at recovered and is now well.

Because it he insufficiency of clinical data reliable lagnostic criteria in such conditions as besterarms in thombophiebit of the renal vein are 1, set unknown. However it is important for the urge in to be a are that such complications of renal infection are possible and that the kidney may be the found meta tattle lesson.

H W I WALT ER M D

Haines W. H. and Milliken L. F. Ti e Effect of Ether Angesthe ia on Renal Function I U. I. 9.7 47

T om numerous experiments on dogs with normal kidneys the juthors draw the following conclusions.

Deep etle anasthes a very markedly inhibits.

function in experimental animals
2. The effect of ether on the kidneys appears to

be the of a vasoconstrictor

3 All umin ria and the other enal sequelæ of eth and the i are probably due to a secondary capilla i hip ramia following the primary vaso c ast i ti n

4 It is n tlkely that ether has any direct toxic action on the ts ues of the kidney

5 The preliminary injects n of morphine and it i interested ther inh bition of renal function in exper mental animal

J SEPH S Fts NST EDT M D

Lee B wn R k Tie ii n menon of Pyelo en us Buckfi w J l l 97 os

The phenomen n of pyclorenous backflow was lr ught but to the medic I profession at the San I and nicention of the American Medical A ctation in to 3 Recently the occurrence of this phen me on has been denied. This article is a Irilminia report of work undertaken to prove its

In the riginal ontribution it was stated that riem is just in f the tubules by way of the pelius i mmy ble Bu the use of a true solution uch a pota i mf rox ande in tead of a suspen ion uch as ucd in the earlier experiments it is best if und po ild to penetrate in some cases as far at h. or. Jutet Lubule.

The ps it this i pyelosenous backflow was first suggested durg an investigation of the renal cur culation in vitich the prives of the kidneys were

tajected with celluloid In these investigations it was observed repeatedly that pelvor rupture occurred at surprisingly low pressures even those low er than the secretory pressure of the animal under observation. It was noted also that the pelvic cytravastion invantably took on the structure of the vens

maximity wose on the secreticate of the Vents. The point at which the phenomenon starts has been difficult to determine. It was evidently in no avardue to tubular rupture or to penetration through the tubular system. It has always seemel that the flow starts where the mucosa: a cuttley reflected from the pelvic wall onto the minor calyces by increasing intrapelvic pressure the progressive strotching of this actue angle leads to minute tears in the mucosa which permit the fluid in the pelvis to pass into the veins. If the process starts as minute parenchy mal ruptures why the absence of general extravasation? Why the specific selection of the remove system as opposed to the tubular interestinal interestinal interestinal interestinal interestinal interestinal interestinal interestinal.

and arterial systems? It had been previously noted that while it is possible to reverse individual sections of the general circulat on the does not apply in the case of the kidney It a easy to private normal saline solution through the kidney by way of the renal artery and obtain a ready flow through the renal year, but if this procedure is reversed and the kidney is injected through the renal vein no flow is ever obtained through the arter) Un ler the latter circumstances the solution steps short of the glomeruli and runture of the kidney will occur before any further penetration can be obtained Hence if the fluid in the pelvis once. gets into the renal capillary plexus it cannot escape by way of the artery but must leave the kidney through the renal yean

arrouge in erreat year. The fact that in see, of pytho, crows backflow. The fact that in cased to rate the ve as though my tile tears in the police muce a surgested a study of what happens when fluids are jointly injected into the kidney substance. So far as the vascular sastem is concerned its only route of evit would be by way of the tread ven. In case of the interstitual is set and by mphate sparse two courses are open in the contract of t

and escape by way of the renal vein
To test these theories injections of India interest and into the renal parench ma of vinue
were made into the renal parench ma of vinue
mere made into the renal parench ma of vinue
made. There hadness recently removed vere
used in this work and the injections were made
gently and slowly. Various vityes of blichips, were
employed in the experiments but the results were
employed in The injection resulted first to the
appearance of the ink in the subcapsular venous
pleut of the corter around, the site of puncture. It
them gradually spread locally, and soon appeared
at more distant points. After 1 or 2 c cm had been
introduced depending upon the use of the hidney
the into began to flow out of the treal venos
the into began to flow out of the treal venos.

GENITO-URINARY SURGERY

ADREVAL LIDNEY AND URETER

Hernberg H. The Practical Results of Failmost in of the Adrenal in Socialited Spontarton Cambrene on the Bail of 10 Cases B ported by H. In State B. In the Bail of 10 Cases B. Dorred by H. In State B. In the Bail of the Cases B. Dorred by H. In State B. In the Bail of the Cases B. In the Bail of the Cases B. In the Bail of the Cases B. In the Bail of t

On the 1 is 4 the theory super ried by lake ration in long states that a fixture of gameries is like to haperscreet, and the activation of the a first like states in a fixe a fresh like state in a fixe a fresh like state in the extinguish of the extending the state in the state of the state

freem at fut the period of the ration was ally

On the fel the eight case leath occurred in en hand amy used was one case in hunter to four Of thirty one patients reserving of from six to entire for mather the cycerst in ten were careful for his well interessent eight were curred for his well interessent eight were curred for his well interessent eight were curred after an amy thought from the history to the course after an amy and eight as recurred after that rangulation.

in in it hat n e ect anlin ne it te ultel le im

To the ca are all 1 riv four treate 1 to other Ru sins 1,000 m sings a total of 100 fm all there remnetee teath of the not which we do not be the thought of the operation. In losty end, I cases the pain sea ed after the operation in twerty is the jude increased but only if a a first time. In first, a ca cases amputition was nece

the endresults are poir Only three of the fatient vere still well two years after the opera in Perel re the hope of effecting a cure by epinephrect my in spontaneous gangene has not been resulted.

telne I is Thrombost and Thr mhophlebitis of the Re at sein J (19 x 11 307

One case of the rombons and four case of throm bophichtes of the real team are report if in detail to make it case of renul can throm 1 s was that of a me is fast; a months of it was admitted to the logget I alib as elling of the rights and of the service was a cough to the fight in an it therefore the result of the result

and chro ic indurate e organized pneumonitis in

both lungs. The right kinney was three times larger than the left. The right renal cin was distended by an a therent blood platelet and leucocyte thrombus.

The first case of timendopolistics to thomselves to the section was that to a 65 year-oil man with a rough dyspiners annormal and weakness. Two weeks after the patients a dim is not to the hosyital the n hit is liney became large an i tender and the ten restrict re to rot degree! Cytoscopy denois affect to Listeral both our retremptions: The patient reads after the Cytos copie examination in the country of the contraction of the country of the cytos copie examination.

Autopsy reveale I old adhes ons in the agrees of both lum's and anthratoric nol let. The values coronary vessels and anotas bonerd adheron to as changes. The kiness were surrounded in fat and were greatly enlarged weighing or eyong each. On strippin the captule surface of found at the I between the control of the captule surface. I this linesy above through I in the lumes.

The according of thrombophichais was that of a rand of a pera who has weeks below the stands as a rand of a pera who has weeks below the stands as on to the hospit if of a feet a furn he filled the suffering from child a high feet a from in the rapid like are portion in the chest. The with the was unferting the chest. The with the was unjusted to the rapid feet as from the first as a rader and on taxes no part was of the clifforn it. The pain ni de is fe class after his admit on.

Sutpoys showed a h all hear in the left ten he a suppurating wound in the lift is pushed over the back and arross and seatt red rated reddah in dules throughout the lungs. The left hilley was normal. The right h line showed a granefur in about the upper pile. The rid can was distended by an adherent gris his redth indus.

The I with case reported was that of a man of 36 years who ha I had a transient hamatuna five years

riol urine from the remaining supposedly non berculous kidney and in forty five ca es urine om both kilners was injected into guinea pigs five (11 per cent) of the latter no evidence of berculo is as found either by guinea pig inocu tion or by micr copic e am nation of the urine three (6 6 per cent) of the forty five cases the it ea p g moculation was negative while the smears the rine ve e positive This discrepancy may be splained by the inherent defensive mechanism of u rea p gs which varies according to the number nitipe of bacilli injected by f brosis and encap ulation of the infected area in the patient and by he appearance of the bacilli tuberculosis in showers that at interval the urine may be free from them In doubtful ca es of renal tuberculosi the various linical ar I laborators examinations such as urog aph cystoscopy studies of renal function and rammation of other portions of the body for tuber ulosi may be of greater diagno ti value than rams at on f the urine by guinea pig inoculation or stuning for the tubercle bacillus 1 yelography nay b of greater value in e tablishing the dag tost than any ther procedure it may justify a lefinite diagno is of tuberculosis even when the mi ro c picand him aldata are doubtful or negative Of the 100 case in hich nephrectom, was per formed f r unil teral renal tube culosis the inocula tion of u in fr m the supposedly healthy kidney into gu ne pig as follo ed n mineteen cases by lefit t miliary tuber ul sis n the animal. In spite of this e ult ho ever a revie of the data in these case led the uthors to doubt whether all of the

There is comparate the little difference of any in the late mortality in the so called blatteral cases and the period unit teral cases. In many of the app et it, I alteral cases exam atton cartied use er I wears after operation showed that the swmp is maked I peared and that the use mas hormal. The be varion made by Beer and his associates the the pittle peared and that the use mas have called the cases ere, the results of contamination is probably to ret. It seems probable however that his occus by means of regueration from the bladder when the properties of the case of the cases of

Cumming R E The Coinc dence of Renal Tuber ul s w ti Hyd onephro is J L I 9 7

Renal tub culo and hydronephro is have cur el similia cou li in the human unnary fract but the so at n not common. Several cases the etn : e prole tate novlement have the ucce fully t ated will out surgical entripation. Iven fiten a hir neph of ckid ey undergoing m r than the us al t arenal pressure and accom pn » flrucpoi i fection gi e evi lence of having nit el 1 t t fun tion but when the obstruction t relec d 1) write al atheterization its function.

al activity is rapidly restored. Repeated catheter treatments should always be carried out except in those occasional cases in which 1 stone interferes with drainage or the infection extends lespite treat ment a senous pronephross resulting. By this means an increasingly large number of patients are being saved from nephrectomy.

Operative procedures such as resection of the pelvis transplantation of the ureter and inephro pexy have added incentive to attempts at salvage of hydronephrotic kidneys. The treatment of ure teral strictures and the practice of leaving catheturs in the ureter and pelvis for long periods of time aid in lessening or curing coincident infection.

In tuberculosis associated with hydronephrosis and in non-tuberculous infection pre-operative treatment is of supreme importance. Preliminary drainage with catheters before nephrectomy lessens the process of absorption and favors quicker healing

All cases of renal tuberculosis are essentially surgical unless the involvement is advanced and bilateral The procedure of choice is nephrectomy The author's method of treating the combine i lesions consists in attacking first the hydronephrosi by estable hing drainage then removing the organ knot n to be tuberculous and then treating the bla lder and remaining pathological con lition of the Convalescence a much more rapid than after the average nephrectomy for tuberculou Cumming advances the theory that the open or hy fronephrotic kilney allows a better escape of infected material from areas a liacent to the true pelvis and calvees thereby le sening the toxemia an I general reaction to a systemic tuberculos s. He believes that many of the supposedly involved remain ng kidneys are merely filtering the tubercle bacilli through sound tissue

The author reports five cases In three complete recovery resulted One patient die Hater of milary tuberculosis and one sho is persistence of bladder symptoms

Git Erf J Thoma M D

Eberbach C W The Pathogeness of Renal Tuberculosis J U l 027 x 1 33

Investigation of the anatomical clinical and experimental aspects of chronic hi matogenous renal tuberculosis points to the p imary arrest of the bacilli in a glomerdius. Since in its early stages the lesion is almost invariably single and unitateral it seems logical to believe that only a single bacillist diden embolics which has passed through the lung

capillanes lodges an a glomerular capillary tuit.
The back it are of low virulence and grow slowly
without completely obstructing the blood channel.
Later a few back in the capsular space and con
tinue to multiply much being slowly washed along
until they reach a divorable focus for unestructed
growth in the than are of the medullary, loop. The
primary glomerular score may head continue to
grow slowly or if the bachla are sufficiently virulent
develop into the sufficiently virulent
develop into the sufficient principles of the program of the principles of the sufficiently virulent
develop into the sufficient principles of the sufficient principle

continued to d s a ling as the injection was continue! I stuly of the kilne sinjected in this manner and fr perly pret tred showed exten the injection of the sensu sistem There was little exi lence of interstitual extrava atten at the site of injects hand po has us tul ular injection

The e experiments ifer an explanate a of the then m con of the enous lackil we It may be on lu el that any flui If; cit ly introduced into the L fnes sales n e e ther through minute tears in the fels mu sa r by frect injection toto the faren chara from the out le will pass directly into the senous as tem HIRRY & F WILE VED

Helletröm J AC atribution to the knowledge of the Relati n of Abn rmally Running Renal Ve se 4 to Hydr ne brosis and an in estiga-tion of the Arterial Conditions 14 Fifty Kid neys traker of 1971 143

The author rower two cases of hydronephrosis in which at perati n a vascular stalk crossing the ureter was f un! to obstruct the outil w of urine from the renal jel a 1 a result of this fin hor he reviewed the literature in his brone, hou is attrib-uted t at norm ils running renal sessels and mestigated it as ular condition in ffry kidness in aut 1 cases with the following conclus ons

1 The a unpt in that hydroner bross may be pr fuce fly c mires in of the ureter by abnor m lly ru ing r nal verels is based part) upon anat mical frings t petati n or aut pev an i putly up a the effect of mere ligation of the vessel which result in their of the pain increased renal funct o minartials trick noith diated pelys It if ille I we er that in such cases the renal I latate a may he cleen produced by other causes and that the e els fi t orapressed the uretering late stare of the hid net ho s

The et no bubt that in many in traces renal servels rus ing the ur ter have been the main cause of hidroneily | but e en in these ca es there infutory f ctors Of the con may bay fren tribut es f t r generally sted temporary distention f the end jels i 11 importance than town art d pt em nt of the kidne Disappear ance tile pe trenalitti it tily of great impor tance since les ent of th la lnes istherel's facil tated and the ves el and u eter become m re intimately as conted that when they re surr un led by fatty t ue In the pr ence of al normally running renal

e els a ongenitally la ge ant e traren la sta ate | pel 1 |r latte fivor the level pment of he le nechro is

3 In many case it i impo il 1 to letermine the p et pla el la the at norm lly running vessel in th steel to n fit h frone, hrosis Other etio I g I factors mu t also be reckoned with such as al norm lite at the lesinning of the uret r and in the jen tal is f the re al pel a and listurbar ureter

4 be is giving sie to ureteral compress on hethe prim ry or econdary generally take a course according to the law promul-ated by Eke harn However such versels need not necessarily enter the ki lnes outsi ie the hilum or in the hilum border they may enter the ren Is ous

5 Abnormalit es in the distribution of the regal vessels are of very cummon occurren e fan incidence of 46 per cent in the cases reviewed) I ranat mical reasons the appl att to renal see els ath n abnormal course of such terms as a ce son

supernumerary or he rant should be avoided. Abnormalis runn ng vessels a a better term It must be liorne in min I m reo er that there are mans transition forms between a rmal and abnormally

running renal vessels

6 The presence fp in I ses not settle the da nosis The intensity and duration of the pain are not in proport; n to the size of the hydrorephrous Ureteral catheterization ma give useful inlo ma tion but ma also be mislead ag The mo treliable informat n is obtained f om pyel gram but even if so may be mi lead n. To I termine n the basis of a piel gram wheth r uret ral compres on by renal vessels is tresent is a metimes impo A hydroner brotic kidney whi h is shown by the I ray to be I ng su gests the presence of abnor mally running renal essels. Tests of the fun ti m of diagnost an lin ju leing the function of the halthy kifter but is of suberh at value as an meet of

the st te of the hydronephrotic kalpey

7 In the tre tment the choice I s between ner brectomy and a corver at e mes are such as resect noith essel Ordinonofthe eselth ross laby of circulators disturbances in the kidnes cannot be exclude ! but as a rule these disturban es are so mill as to be of practical importance in many cases I siston of the se of may relieve the pain increa e the renal functio and at least to some extent bring about a red ction of the dista tion of the renal polyis. This procedure should be resorted to in all ase in which the re al pel is is not markedly I lated and there is no severe infec tion I ven un f r such erreumstances however the vessel should be do a fed of pephrectomy is ontra in I cated by reduce I functi n of the other ki lat) In true an i m rke i movable kil e nephroper) should be d ne nad lit n to I sion of the vessel and in the case of a ki ked ureter tized by adhe on the a thesion sh ul i be freed. When the other kilnes is n rm l phrect my should be performed in frafa cefease n which ly a little p reach, ma remains and t tho e with more se ere infection or other hanges in which ete tion in the renal pelas t be expe tel fier e wa of the vestel

Morse H D and Braasch W F The Compara ti val e of Guin a lig In scription in the

In 100 cases n which operati n was performed for unilateral r nul tulerculo durin a fi e-year The typical kidney removed for attropher pyelomephrits rangerfrom 30 4 cm in length to approximately one third of the normal. It is surrounded to be dense adhesion and may be difficult to find. The hilum is usually unsaded by large deposits of 1st. The renal pelvis is usually marked it bruckered and exacting do no section, the renal cortex is triegolar and presents many pulse areas of exactional degener.

Pall attice operations such as nephrorrhiphy decaputation preletions) with dramage and implication that end to the found of any such as a such as

Simpson G Angloma of the kidney P & R S M d Lo d 9 7 7 8

Sumpson reports a case of angioma of the kidnet. This is a rare condition. In a review of the literature only fourteen cases were I und It is unusual for newt to begin bleeding in such sheltered situations without trauma but in the author in cause of trauma such as a stone in the renal polition congestion from abnormal in bulti, was demonstrable.

It is impossible to diagnose the angioma before per atom and in this case the 'mor was almost o erlooked at the pathological examination as it was no la get than the head of an ordinary pin. The author suggests that unexplained ease tial harma term and ordinates to exact the must be a more than the continued of the continued of the continued at these for unlatteral harmatura he a saturable t demonst ate an angioma.

The teatment generally relied upon is nephrectomy. The author characterizes the treatment as a surgical iniquity. Method [kidney exploration which dam go the kidney and make probable the necessity for a second ope ation are also unsatisfatory. Simpson urges suggestion as to more

conservative treatment

J EDW N Kt EPYTRICK M D

Front W.A. Unusu I Case of Tum Implant tion Following Seph ectomy for Papill ry C) tadenoma J. U. I. 9.7

The author reports an extrace of navor case of tumor implant ton from a papillary extsadenoma of the kidney. The diagnoss of tenal neoplasm was cor et humade before operation on the nephrectomy was of an through a lumbar measion. After being the comparison of the

JOSEPH S EISE STREDT M D

Crance A and Knickerbocker II J Postopera the Re uits in Primary Carcinoma of the Ureter Following Complete Nephro Ureterectomy Report of a Case Nearly Two and One Hall Years Following Operation J b of 1927 334 57

Stilling W. C. Primary Malignant Papillary Cystadenoma of the kidney with Fungating Growth in the Pelvis J. L. of 1927 viu 165

CRANCE and KNICKERBOCKER have found in the literature to date the reports of thirty six cases of primity carcinoma of the urtler Little mention has been mide of operation of gene of by pelographi of the majority the diagno is was made at autopsy has had one case

The putient 1 vs a woman 42 years of age who gave a history of weakness and statacks of hema turns if equency and urgency. At operation a long curved incision was made from the costal border downward to below the anterior spine of the illumined to the control of the control o

it The pytient myde an excellent recovery and was d charged from the hospital with the wound completely height. During the two years following the operat on the blad for was examined on three occasions and at all examinat ons appeared normal. The patient has gained weight and feels perfectly well.

This case shows the importance of uneteropyelography on the side from which harmorrhage competency of complete nephro uneterectomy in cases of definite uneteral carcinoma and of subsequent cystoscopic examinations

STIRING has collected thirty cases of malignant cystadenoma from the herature. These kidney tumors are relatively tare. The cause may be stone or infection. Trauma has also been mentioned as a factor.

Cysts may be single or multiple and well encap sulated and may contain bloody fluid and fatty det itus The structure presents coarse trabeculæ or vascular connective tis ue covered by cubical cyl ndrical granular or clear epithelium usually in a single laver The tumors are slow growing and of a relatively low grade of malignancy Metastasis occurs late The symptoms depend upon whether or not the pelvis has been invaded by the tumor Hematuria may occur early Hamaturia pain and an abdominal tumor constitute the triad of symptoms The diagnosis of cystadenoma has been smplified by the \ray and pyelography Pyelography will show distortion and encroachment on the renal pelvis Braasch calls attention to cal cified streaks occasionally seen in a primary roent genogram of renal tumor Kretschmer found an enormous amount of lime salt deposited in the tumor

reates the jehisely. In cheaten hon If it is close to a calva chinical very toms and second ry killy infections are likely to appear vity. If it is not the lase of the pyramid it may fin be an entire 1 le helps raying rise to pelus infection.

The post of the state of the post of the p

In (Cath w MT)

Kild F: The Treatment of Tuberculods of the Kilney P 11 a. 192 150

Taber us of the usualitate to a few end a feedback and is it by for givent work more, and choice that the Let a nature clean is it by for givent work more, and choice that the late a nature clean is more than the lowest type. The late is a price of the late is an any lefect at fifth, serviced well be in the tendent many late at the late and Wite found the wollows. But it like and Wite found the wollows is to be the late and Wite found the wollows. It would be a few and we have the late and Wite found the wollows in the late and Wite found the wollows.

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of h he infected temperature is the all test present that walles e.g. for it full record in his because the following temperature of the fit as the fit times as temperature of the fit seed to the fit time performed by the outher with our persure metally treatly either test licin were as long on improvement. Fight of the parent ere not trace! ask det I flung toutle it in four that the fit is the fit of the fit of the fit is the fit of th

The ureter is severel ath the a tul auter.

When the wound break d wn and f tms ne r
m e sause healing will be favored by Becks.

Branch W F & gleat Treatment of Cheonic Py I mephritt J L of 19 7 11 13

Who whethere pied eights in it is a?

Who whethere pied eights in it is a?

The strip is a first in the piece of the piece

harmat can a 100 trefuction epirics. It item to any a member reader ceding half e than the there in Leaves acutes write in the fact in the content to the fact in the content to the conte

t accepted the if I n in the cites of its I have a the wreter has an accept what is the its its I have a new in the cites of much a life in the has a contract with the or its inches is unit in the track in the cites of the cit

The number of cases I recal sto e occurred e trot he blieralge lineg bei g auf great given il it is e whent that the et i gral atteit frmt are ifferentft mt ose ! | knephett It mar be t per liet determ te wheth rith re al alulu i g mare o secon an t th | I neghritis When it is see ndary it is a unit small in lattuated to the senal paren hims. I wm we if the ability faurg al rem al m be t t naile as th tones my teman small and it are mpt m Whan numerous m Il t es re se ttered throughout both kilners ug al tre tm to usuall to a trisable Marked tv l ph ti in lly pers sts ill ig the a ourse of la e n l ureter l'dilatati nephres e er llam tura with prefet my min t net hrite I w u lle self I miting or can be c nito th by he lyg ith if e mirate In occas n l

case or here time ments in lated to the plan of billered and to the plan of plan of billered and the ments of billered and billered and

is in a difform the up not on the juncture between the shird and fourth quarters. A transverse incision, we made from each sud to the is les and the membrane and bid we may to the sides. Cargut is membrane and bid with the sides. Cargut is membrane and through the lower end of taxet is at the upper and to of the mosion. The cargut, is the upper and to of the mosion. The cargut, is the tributer of and to do over the fast as at the evident of the tenth in the wound is closed in four stages. By this method the taking is protected.

Nepf rolisis i as performed by the author in 1892 for medical nephritis Since then 100 cases have been operated upon in the a mortality of 4 per cent

In painful horseshoe kednes, a thout in a two-the statum is exposed by laparotomy and an inc son made through the postenor si est of the pertoneum first him is showly trushed with an ang artiu until out, the stamus is showly trushed with an ang artiu until out, the constitution of the property of the status o

CLAIDE U PICK ELL MID

Rusford G. F. Nephropery to the Relief of Ureteral Kink Associated with Ptos s. 7 Jm M. At. o. ix 54

In the author's opinion, the operation of neph ropers as a cure to the symptoms produced by weeteral kind assoc used; inh pri is of the kidneys has fallen i to to be evel disuse. He reports the results of a cresoff forts infit case.

When is has ben prived by careful stuy, that the wing toma are due defined to the all normal positions of the kidner and lostract on of its dramage by the biax two of the unter quoken and more is ting results can be obtained by suspension of the Linguistic and scrapificating of the unter than by unter all distations and prival large General prosss of the abdominary were done not contribute in a prival substitution of the unterstanding and prival large General pross of the abdominary were done not of the prosess distinct and the product of the contribution of the contribution of the contribution of the product of the contribution of the co

Of the author's forth eight rations forth two were omplicitly relie else their symptoms and five fail defate myron ment in some or all symptoms. One patient war re optracted upon two years after the first operation because of a recurrence of the jumptoms but has in cheen relieved for ten years.

If it is 1.5 Tond MID

Ockerblad N F Stricture of the Ureter in Males
A Report of Ti irty One Ca es J im II 4
9 11 x 44

The author reports thark-one called a should be set of the stratures will not a finite a bulb and required diletter and following the set of the stratures will not a finite a bulb and required diletter and following the set of the

Chintal experience seems to hos that focal in fection is an important factor in the etiology of uneteral stricture. In mine of the series feeth or tonsil were found to be fixed of infection and their removal plus dilatation of the stricture allorded striking reflet of the symptoms.

Pain is the outstanding symptom of ureteral stricture but varies greatly in inten it; character and location and was absent in ome of the cases reviewed Unnary frequency dissura by us and harmaturia were other symptoms. In several of the

cases the urine was entirely rormal

The location of the ureteral strictures determined by the bulb and ureterogram. In all of the author cases it was in the lower fail of the ureter and in many in the appendicest area. Fulform strictures of the intramural portion of the ureter and of the first a or 3 cm beyond the bladder recommon and were friend in one that of the author cases. In

thaten of the cases the stricture was bindered. The treatment coust is red latitation of the uncertail attentive with increas ingly larger bourges or eatherest much in the same way that a utterful stricture is distared and in the use of either alts or hye substances to clear up or keep down tread infection stances to clear up or keep down tread infection of the treatment. As a rule uncertail strictures that do not remain distel are likely to be tuberculous. In the presence of infection the re-point of the large distalation of the inter and its functional integrity deede whether or not neighter tomy mut.

BLADDER URETHRA AND PENIS Campbell M P Studies in Bladder Deco

impbell M.P. Studies in Riadder Decomp es sion J.U. 1927 2Vn 371

In studie of blidder decompression Campbell inserted a small lamped rubber athere into the bladder and connected it with a three way consometer. He then so by remo ed 30 occur (1 acme and notes the pre-ue. The was reported until the pre-sure was zero. The blidder was then completely empired. The procedure required from trents to thirty nimutes.

In all ca es the bladder ten ion was reduced so per cent by the dra't in gold 1700 c Cm. Campbell lound that it is the withdrawal of the first to each that produces most renal and circulator who can be sufficiently to the control of the control o

Cradual continuous ten ion reduction obviates the tydrulic jolts to the hi ine; which occur when a few ounces of urine are released period cally

R se D k The Path genesis of Bladder Diver ticula 1 4 S 12 19 7 2 7 4 1

Diverticula of the blander may be con ential or acquired In certain cases Rose has found the muscle

One of the first changes in tumor of the parenchyma of the ki lnev is il nextion of the calsies

String reports the case of an 18 variedly and when entere it the ho trust complyining of pain in the left in the ant back master a comiting intermittent hamaturus and 13 so if weight and strength that a strength of the control of t

Convale once was uneventful. The patient was discharge I with the in 1 ion heale I three weeks later Sul sequent monthly examinations revealed no re-

The nath I recall to

The path I great largness was malignant papell in created enound of the killings with fungating grothing the pet is

The author draws the following conclusions

1. Mal gnant systadenoma of the Lidney is

u willy slow growing

2 I am I leeding an I the presence of an ab lom and turn r are the constant findings

3 I yelography is the most accurate method of frign sis

4 A grave progno s is in heated if the turn t extends into the p riterial ti sues or involves the kilner pelvis

y M I gnant cyst lenoma metastasizes relatively late an 1 m at ften involves the lungs fiver and repai veins
6 Hamaturi is often the first in heation of a

seri u le ion of the urinary tract

WELL MS BRIER MD

Doub II i B liger A and Hartm n F W
The Relative Sen iti ity of the kidney to
Irradiation Rd I t 97 4

The authors attempt to determine the relative su cert I laye the ks laye of the d g to thort was length ir diston and to evaluate the 'harres of it chineal application of leep therapy over the changes are rarely of served following irradiation changes are rarely of served following irradiation either fecusive the subjet is uccumbs to the mass we lestination p tuce I iv a large dose or the regentation after small does in so rapid and complete that little or too evidence. I damage are smallested by the interest of connective it was never not large as little or no reduction in the functional activity of these organs.

The kill et was found to be the mot susceptible organ as regard both organic changes and loss of function. Chronic thill se nephrit so the combined terst to land viscular type was uniformly obt incet even with relatively small single applications. The

lessons were pogress, he in projostum to the insuladinage. Tile suthers report the case of rendidus age with market 1 km nution of function following the climate application of deep V-ray therapy to the rend area. One part ent died in urrame cama in the case of nephritus descloping or becomisted order cases of nephritus descloping or becomisted order cases of nephritus descloping or becomisted order to the app were cased. No record of the area treed coat application of the case of

CRIRIFS II HEACOCK UD

Roy ing T My T hai jue in Oper tin on the

In ki thee surgery a gool expo use is of m f importance. In the authors et es the pt it is 1 to his back, with the elge of the table et et use with the free bor leer of the erector para muside. The incision is legum at the erector para muside and a whetheren the c. (fill his has like it also have exposed the time son is continued obliq by we toward the publis

Stone in the pulse states a current settle exposed. A fiel often is done only it he proposed a fiel often is done only it he proposed and the state of the state

In nephrectomy for malay any subserved so or ponephritis the wreter is doubtly latest and the sparatel with the Paywello caut y. The kil or is then carefull isolatel so, it is the cape also from the torn. The ve els are latted with a crequit and the both entire through an open are in the late for a high subsequent in fitting the property of the late for a high subsequent in fitting the reset is the late for a high subsequent in fitting the reset is the late for a high subsequent in fitting the reset is the late for a high subsequent in fitting the reset is the late for a high subsequent in fitting the reset is the late for a high subsequent in fitting the reset is the late of the reset is the reset in the reset in the reset is the reset in the reset in the reset in the reset is the reset in the reset in the reset in the reset is the reset in t

As polycystic kilner is blite 1 conservat e and safe surgical proced re 1 punctur (for cysts This elue sthe kiln) 1 its vom 1 sue A ciparette ! a n shoul 1 be intro luced and r mo ed after six days \ fistall does n t il low 3h et al

funct on improv s

For nephropecy the in o is be un at the key of the tenth ril e tern I to the erect r pire and extended fart down art mil ay Let een the twelfth rib and the il ac crest and then I rear for room II Jainey is then I eed and let) eved and the ureter freed of stran b of fascia. The membrane

Caudal and thesia i de trable and may be em ployed as an office procedure

Post cysto copic roentgenomams will how the p cin, of the ceds to be very inaccurate and that some of them have fallen out. Roentgenographic control: therefore of parti ular value after cysto scopic radium therapy.

In conclu on the author states that the control of blad ler tumors will be successful in direct proportion to the promptness with which treatment is given Lours Coss MD

in the Formation of Urethra in Its pospad as 1 S g 971 vt 39

The successful format on of a functionally and a atomicully efficient male urethra in a case of

a atomically efficient male urethra in a case of marked hypospad as a difficult su gicial procedure I ce use has accomplished it in three cases by transplanting the intact mucosa of the vermiform appen

By a s rie of plastic operations using transver e colon with longitud nal clo ure he first corrected any chordee or anatomical defect in the penile h ft d crotum Perineal urinary draina e was estable h d to keep the operative field clean and dry A troc r size of to o F catheter was na ed thro ch the glans at the site of the normal meatus and the ubcutaneousl na ed backward to the site of the hypo padiac opening 3 ormal appendix was the el cted th lon er the better The muscle and pe to eal layer of the append a were dissected off a d the intact tube of mucosa was passed over a rubber cath ter an i li into pi ce through the trocar or tro ar pa a e a 1 sutured there Later the catheter a removed and the mucosal tube dilated ith ound When a atı factory dilatation had been ecured the h pospidiac opening was sutured ur thea in the same way as a severed rethra | suti red

Unll the rults are good but in ome case a good enit mir qui e several operatio s HOM Purere s MD

McM1 rt r C L The U of the Seton in the R p i f Torn o St ictu e I U thra a New Method th a Report of Two Cases (

The author cites the diffcults in obtaining satis for un on fith end of a ruptured or completel inclumed urch and use the anatoms of the uethy and the surface furnary extravasation it either timent fringurs or obt function of the ur tha und reports a cale of each conditing trated in the eithe top.

In ce of pture of the urethra anterior to the tragul 1/1g mat the extra asst on of urine in a first agul 1/1g mat the extra asst on of urine in a large per sum and a rotum and occasionally the pil 1 the fill of the permaine rdupo er the cret of the pub and spread of tower the entire bim. Rupture of the memb amous urethra may be flowed by it a saxion of urine extending by the asstance of units of the cretical production.

backs and into the ichorectal fosses through the superior fascia between the prostate and rectum and upward into the presesseal price or the union may leak through the inferior of cas of the triangular ligament and down into the superficial perineal space. If the ringture is in the prostatic userlar the extravasation of urine may extend upward to the space of the ringture is in the prostatic userlar the space of the contraction of the prostatic userlar the space of the prostation of the prostation of the cut and the prostation of the prostation of the contraction of the prostation of the prostation of the contraction of the prostation of the prostation of the contraction of the prostation of the prostation of the contraction of the prostation of the prostation of the contraction of the prostation of the prostation of the contraction of the prostation of the prosta

Among the causes of utnare extravasation are percenterly aboves traumate rupture of the urethra injury to the bladder and suprapulse of the urethra injury to the bladder. In nune cases the rupture of the urethra following fracture of the pelvis was located above the posterior laver of the trangular ligament. Deanslevy quoted as suggesting that the rupture of the urethra i due to lateral compression of the pel is with stretching of the soft parts and not to lateration by the end of the bone trangments.

The local treatment indicated following any injury or obstruction of the urethra with or without extravasation of urine is (1) adequate drainage of the bladder and of extravasated unne or infection (2) maintenance of the patency of the urethra until the granulation to sue has become covered with epithelium and (3) the passage of sounds to prevent stricture The chief difficulty consists in maintain ing patency with approximation of the torn ends of the urethra To maintain the patence of the urethra the secon is left in for several veeks that is until the grapulation to sue has become bridged with epithe hum The rubber catheter may be used for the same purpose but it causes a certain amount of ædema perhap by strangulating the blood supply and it interfere with drainage. If the rup ure of the ure thra 1 above the triangular ligament or involves the bladder with extravasation or infection suprapulic dra nage of the bladder should be done with drainage of the infiltrated area and the bladder A catheter ma be left in the urethra for a few days and then s ithdrawn a silk seton being left in place until all inflammatory reaction has passed during the pas sage of sounds and until epithebalization of the urethra has occurred The first case reported by Vich horter was that of

a 7 sea-old boy with a fracture of both man of the public bone rupture of the prostate urethra and an extensive extrapentoneal rupture of the rokes and as extensive extrapentoneal rupture of the neck and as of the bladder caused by crushing between the tailboard of a truck and a tree On the patients a drins son to the hospital hi face was drawn his repiration and pulse were rapid and the abdomen was distended in the lower third. There was no extensive prostate of the purp of the prostate o

At operation a suprapubic incision made through the prevesical fa cia encountered bloody turbid urine in large quantities. When the fundus of the bladder was opened a tear large enough to admit bun lies in the bla lier will di no el in such a way a to lerve exten in entirely through the all fibrou it sue prifmys which verten the vall and therely is or beginning. The acquired factor in nor discritcula from the north in the discritcula from the superassed inter

se I all presset but to obstruction. The region near the lateral border of the trigione bears the greate t arrain. Here the muscle bundles are larger and less numerous and by their attachment search the lasticity of the area. Here also the

fil rous pathmass are more numerou. Hence the pre! position of this region to diverticula formation Harry 1 Fourth M.D.

Reyes F L Recent Radium Treatment of Blad d e Ti m rs J U d 92 xy 2

heye following Barriager's pocedure has implante linto a few bits Her tumors radium emanation encased in metal captules (He so-called see is). He rep it cupic case:

I ness ement of the emanation in metal decrea es slingh a I secon lare infects a and eliminates the intractible as I um burn with ut causing any no alloliminates in its the radium destruction of the tumor

the better the supreput it all, the implicatation may be made this it equals entirely, in it depends of his course in the supress of the supr

In to the eak

Acres points hip pund anothers and in
jects in of acriffacine (1 100) into the blad

de The cripeter is left in for the subsequent in
jectule of the like virtue of this combined dis
tentin a sin fild six anti-epus and the power

in of air caboli m

It operation a median at hommal in ison is
mile from the pubes to it e umb shrus the blatter
cape of and the mil proceedly guize pads
(the blatter is infated with air an infeed by tills
favour. The outer tayers of its m culvi all are
ten i cel and the champs he file into the nei son

a at 1 pull it widels apart

It the count the bla lier m be punctured and
if an prator is fr mpilly at the linto the incis n
there will be little soiling of the oun! A newter
proce lue however is the l'howing

"I The Mailter is define a net the catheter with frawn the deeper m is le libert are then a cod (lines the bludler wall is except it all), cler all the muo a with it as pears as a flact of bublish may be free! I he elges of this are seried and elevated with MI lamps the membra c is puncturen a the aspur tor vo introit ced without the loss of a drop

2 The bladder will is auti usly invised guiled by information lerived I om pre optra we eve a scopic eximination. The edges of the incision are

of flux)

elevated by All's clamps unt l tile flu I remail gin the bottom of the bis ider has been a guated r morphed away

3 Retractors are introduced. The auto auc retractor is much the best for the avera e case it acceptionally. Walker or B et nece ret actors must be use i in order to au of brussing o centealing a tumor of the lateral wall or vault.

4 The patient is placed in the frendelen wg

pos iton

5. With the mil of a bladler light a dismit a
ponge the interior of the bladler transfull in
specie and the implantation done as I lous
a Large projecting time masses are exceed

about the pelicle with a mall a gu! torcep (eg. Ih m son a right and el tumor fore ps) bli 1 and it it dolt with No o plain calgut and the from portions are cut a ay or rem sed in the eguten

a stroyed by fulgue than or the ne of the arthe canter.

t bless the bases of late lawrons and area old assert growing paper in to relate sal

A specimen is obtaine !

e Ra fruits emanation see is of g 11 or pittinum each Containing t to 15 me 1 emanation a empl of by metal h eech looking need the standard in less to 5 tm and at a d tance of a less that me (com each other through ut the turn runss)

6 The retractors are rem veil
7 The supraput ic blaiter inc son is sut red b)
Lower's technic ac with ultin catgut fortified by a

8 The gaue pals are removed. The abl mina wall is cleek in the usu I manner with a contest.

drain to the pressical face.

Then the open couch in went will do biless of or ne apontareously. It not the usual postoperative extincter precautions are taken.

The cign ette drain; removed on the third d.
Between the fifth and the tenth days a rentgen
ogram; taken to rove the presence of the

as some of them man have fale out.
Cold the operar has gro n accustomed to it progress of radium w unds he all do well to mea ega o ope examination of his past in the month or or after the oper tion for his on a symatom. The egap of the color make such an extendation of the example.

d tingue he ith certainty bet een tumor and the effects of r dium. Be p v bv ensisseopse force may or may a th hip. Recurrences it amenable to treatn at at all ar

Recurrences if amenable to treatn at st all ar controllable by cysto pi fulguration or the speciation of rail um

I the cystoc pl ppl t frs me f one or tw seeds per tumor is uff ent Keyes per lers two bet we the tay of cystoscope live ppl d seed in the tissues is own t

Cystoscop e irradiation sh uld b repeated tin

terval of from three to six ne ks

rate three times as great. In the third decade of pro tatic surgery it became recognized that symp toms of pro tati m do not always mean benign pro static hypertrophy Surgeon have learned to dif ferentiate clinically four conditions producing the same symptom -benign pro tatic hypertrophy prostat c cancer contracture of the vesical neck and n nal cord bladder-and to apply to each condition

the treatment it requires

The author believes that an analysis of the results from three to five years after operation would show too large a number of patients he though hving are at Il sufferin from unrelieved urinary obstruc tion per istent urinary fistulæ recurrent epididymi ti incont nence etc Improvement in the morbid it is to be expected throu h proper identification of the type of prostat c enlargement before operation and the choice of an pe att e method suited to that particular condition viz the suprapubic operation fr ant ave and hypergroups of the lateral and me han lobe the perineal method for extravesical hypert ophy a d the punch operation for contrac tures I the est al neck and for median bars

Ra dail fou d epidi ly niti as a complication in 23 re cent of h c es As in 5 per cent it occurre l previ u to operation luring catheter dra nage he advo ate filate al as ection as a r feventive meas u e bef re d'u ge i begun. He prefers pinal a x the 1a unless the systolic blood pressure 1s below 130 When the systolic pre sure is below 130 he p ef it ou o de and ether to nitrou ovide an loxyge a ze the ia He eve shel st 100 consecutive cases of benign

or st t hypertr phy of which thirty eight yere oper tel upon by the penneal route and sixty two by the up apubic r ute

HERYL SINFR MD

Low ley O S The Ideal P ostatectomy Int 7 t J 18 d 5 g 17 189

He aus of the ge at hich t is usually pe I rme I p tate tomy will alway be associated with me r k but mol n technique has reduce ! the mo tal to the min mum

I mbriologi all the pristate i developed by e aginati as t om the poste ior urethra into five the po te 1 lobe te oming practically a part i the caps le With the exc ption of the ante t ti be the pr tat usually enla ges until pube to Cicn m u ually begins in the posterior lobe

In e tal examination the size regularity and c n ten of the pr t te should be n ted Board like ha in s sugge t carcinoma A L ge boggs pro t te in oung man suggests sar oma Per si te t re lual u me indicates operation for the lief f b t ton Cy to cop should be done firt ni vph lis sho li al avs be looke i for It init di al e e of refl xes an I dilatation of the int rnal ph ct Wha syrbi is present antis phil's treatme t sh ul l be g ven before opera ti n A tw ntv four hou sp cimen of urine should be c efully examined a blool chemistry and

phenolsulphonenhthalein test made and the 11 of clotting time determine !

After pre-operative eatheterization the bladder should be partly refilled with bone and Lowsley performs a two stage operation and uses Kenyon's suction draina e apparatus He of jects to an indwelling catheter. He delays the econ I stage of the operation until the patient is in condition for it and throughout the treatment he pushes fluids

He performs the operation under sacral or para sacral anasthesia and prefers Young's perineal operation with the use of Crowel's tractor through the urethra. The posterior urethra 1 not opene l The ejaculatory ducts are not injure I and epidi ly mits sel lom results. The anterior comm ssure is spl t athout injury to the internal sphincter Tags and half destroyed to sues are removed A Pezzar tube size 26 I is introduced through the urethra and fixed. The prostatic be I is packed vith vaseline cause the levator ani muscles are sawed together and the skin is closed with silk worm out

In the after treatment the bladder is irrigated lails through the urethral tube. The nack ne is removed on the second lay and the patient allowe i to sit up on the fourth day

BENJAM I POLLIE M D

DuBose F G Simpl fied Pres at cromy I t Judes g 97 197

The author performs prostatectomy in its o stage The removal of the gland is always preceded in suprapulic cystotoms. After the removal of the gland DuBose loe not flush out the clots as this prolongs the oozing For hæmostas s he uses a gauze plug After moderate de tention of the bladder with boric acil he employs 4 per cent apothesia piece of tubing 2 in long with a diamet r 1 in 1

inserted th ough the incision the parietes being approx mated above and below it by a figure of eight h ature Through a cork an an ular glass tube with an attached rubber hose is introluce ! into the tubing and the bladder thereby diamed 12to a receptacle The tube is clamped intermittently so tha the bladder will be emptied gradually Th ough the same tubing the blad ler i irr gate l with antiseptics for about to o weeks until the kid ner function s no mal an I there : no infection

The author removes the prostate with two fingers of his right hand in the suprapubic incis on and two f ngers of h s left hand in the rectum peeling out the gland an I leaving the capsule \ \ soft rubber cath eter is introduced through the urethra and out through the incision A gauze pall is wrapped ar und the end of the catheter and sutured the ends of the threads being left I ng The catheter 1 then drawn back out of the urethra and the gauze packed into the prostatic bed the end of the catheter attached to the thigh by a lie ive tage and the threads clamped After twenty four hours the dressings are changed an I the catheter is cut off at the meatus and withdra in with the gauze by trac tion on the threads

three topers was con extending across the prestat of etler and ur on the Iles of the blutter fo the that ler en icla to ro catheter in the penis a long pi cof naxe falineilk nassutur ! fi 1 velat r the eath ter was will fraun the water ault beinleft in three and the end from th extern I meatus being ti I to that from th bla lder Thirty eight I v after the operation soun is were pa se i un ler etholen and the is 11 h n the sil s ean was removed n the sixty I fth las the ur thra was foun ! to remain well dilate! The fatt nt was lischarge ! well nifeeight i urth tre ant nith the occa ; nal g fount be was well two years later with normal Ila let f nett n an ! re ten! st mar!

streture from tun The or leave rewrited was that of a man & a to the best to be of th merite me crethra nithel wofthebla drill igasurpul un art tula He com planet aper the upray he full and inabil stount I f fl logs per tatect my the bl. f r ne k bal el et over ith sear ti ue an I he had ne er been the to it e emails there fter

Neithe sou till im e libens ed At peration the supray alices rina excise! As n urethral pening could be fund on the 11 ff r side a ren bur the toms as I ne and with one han i mit that feef ragule an pening wa male thn Johthese rti celt theil Itrant muh rmethte ith a be britet ilk the ! att che I to it 11 fer ent was I wert I into the I first ugh the pe Att sten lyn the catheterna withdrawn The et n asl it in place fir forts thee 1 38 % I were then ; ed with out to the arl the patient so I resmall at we ablet rtain he bei all night

(FIBH) MO

GENITAL ORGANS

tarn it I ft Cance Ittel on tewit faten te B ne Meta t ses ((1 1 m

The pre tat smpt m a societ i with ancer are mu h m e ray Il gr gr e than th se so ciate with mple in ma Blater II p n men over sove t fage 1 ry s gge ti e m lig na , fi e met tie are pre ent n ne f rih of th cancer I the p tat bef r th liam i I the local les ni possible fil es fret flected are the fithe pel 1 and lumbar to Them comm nour fet ti an it numa is usually f u 1 th fie tee "ram m le t ascertain the ause I list reprin ly titt is an exciti nt the rul that meta tati u ually car e lest tive hing in I ne Γh changes a cu u lly terpla ti

The auth rier risthe a fam n 73 whit his mitte to ath Ibing pun in bith leg if em nth durati n foll elly pe stent sorene s and tente e in the arm haf ne k chest and abdomen is I ray examination re seal Ity cal osteoplastic changes in all of the bres included in the expo ure the prostate was exam ef In the at sence fines terpla ticchank amenti d the lived no le in the pr state w. Id has been un noticed so al ght we thech age Because feapen ence in such prove I cases and because of the hone p tu er in this ca e the auth riscen meet that the merger local fa lings in licate cancer

Involvement of the to es of the fire ress and

lemi a very late manifestat n

I f tant in lated bo e lesion is hert ex la ned bi a sascular embol m f ne r cells Of 513 cases 121 showed involvem at of the pel t vols ment of the pine t licat n in the authors 1 inion that the exten a n occurs by the lymphat ics I'm! I meta tases u walls lovel e the lu ge In aser with exten ive lione met states the anam's is a usils le profound. There is n'explanat ni r the tin lenes francer of the profate to metasta are toth I n

in the cases ported a convol an occurred a lithe t tiert lie i a few t ers later Autoper re erled a enox reinema f the prostate and met tases to the ismph codes arround g the i w r ports n of the all minal orta the skull rib sternam femur lungs pleura the posters r I be f the pitut tary I ly and the left ga, err n gangi n The e n ul i nani leath re probabl caused by the meta tat tum at the base of the I rain Th tumor itself apparently one nated by lifect extension fr m the wert fepo tain thet we fthe kill France H 31 D

Rand If A Pre-pect of the Pro-tatic J 1 & WINE

The auth re : ws the progres that has be n ma le in pro t tie urgers I ro tates tomy was first performed in 1805 I in the su ceeding te 323 5 the true rem? I I the hype tr phiel el ni began to be precised in the technique of the s prapide and penned proced were lest ped. Thu peno it si with the bit tone controller termen the alhere is of ea h metho is i hi has pref ratle. The maj its if the perat a in the lecade were still performe las ern rgen 3 p ocedures

The econd decad from 100 t 1015 lr ght a clea er u frataning of th prilem of unnary I t cu n It pr oil the value of c reful preperative preparatio which w sh w to be m re imi rtant th n the choi e of the operati e method r techniqu Dr g this je io l the mortality rate

TI third lera le 1915 to 1925 fu th r tand rd ze l ferative techn que an I pro lu ed an merra. & numt r felins where ple 1d urol great u gery I wered to what seem I be an irreducibl m mum a general as rage of from 8 to 10 p r cent Whi certain el n a treating chieft priva e ca es mi reach a rate as la a 3 per cent the rece da of some muni ip i ho pital sh n una cidabl mortal to plasm or epidilymitis i quite imposible before

operation

The tvi t usually occurs just above the testicle The proximal cord and within the tunica vaginal is relatively normal while the di tal cord epididy mis and testicle are thur h black or gangrenous. On ection a generalized thrombosis belov the twist is revealed Gangrene results very quickly in unrelieved cases Atrophy usually follors even if operation t

done early If the testicle and er ididymis are found viable at operation the corl hould be untwisted the tunica aganalis inverted and the testicle sutured to the bottom of the scrotum If the testicle 1 not viable

as indicated by bleeding on pcision orchide tomy should be performed

Van der Poel ep tied the case of a patient who learned to untwist the ord , hen he had a relapsing torsion Other prophylactic procedures consist in operating upon the undescended t tile before puberty and suturing it to the bott m of the scrotum When the mate of an involved scrotally contained testicle shows abnormal mobil to it should be sutu ed to the bott m of the scrotum after in ersion of the tunica vaginalis to prevent hydrocele

Untwisting the unexpose I testi le is a blind procedure whereas imme it to deli ery and unwinding in the proper direction followed by proper replace ment and suture will save many of these organs from gaugre c and les en the chan es of atrophy

Fifteen c e report a e p esented with six illus tr tions to death re repo ted. The article is supplemented by a b bli maphy

I E IL KIRKE TRICK M D

Wesson M B M I gnant Tumors of the Testicle and Sc otum 1m J S z 10 7

Th autho repo ts fou ca es of cancer of the tests le and ne of sarcoma of the scrotal raphe

In all d ubtful cases immediate su gical explorat on is indicated because of the extreme malignancy of the tumo s A po itive Wassermann eaction does not rule out m lignant tumor. Pa n is r resent in 50 per cent of the cases The testicle is usually normal in shape. Its surface is usually smooth but may be lob lated. When the testi is not la g. the epididy mis may be f lt as a nodular cord but wh n there is mark d enlargement the epidid mis is flattene i out The tumo 1 freely movable and not t an lucent but there i generally an accompany ing hydroc le The hy trocele sh uld not be a pirated as subaprotue f no dagnostic mportance and is misleade g a d danger us. The surface blood ves is of the t m r are greatly dilated and tor tuou and the rd : large as in hamatoccle and gumma

The treatment t of thee types (1) simple cas tratio (2) r di al operation for teratoma (3) ca tration and adiati i f r eminoma Castration i justin ble onl in ase of benign tumors which are ve vr re Ra I al ope ation is objectionable because of () the imposs bility of removing the primary

is mphatic field completely nathout causing grave injury to vital structures (2) the high operative mortality (12 4 per cent) and (3) its ri k i hen in so many cases the tissue removed ho is no metas tases

In cases of seminoma imple orchi lectomy with high ligation of the cord followed by thorough irra diation of the lymphatic area 1 apparently effica cious even when ab lominal metastases are present

The first three cases reported were cured by orch dectomy and deep roentgen ray therapy fourth case an incomplete course of roentgen therapy was given and proved insufficient to control the metastases Case 5 a case of sebaceous cyst of the scrotum showed metasta es after operation which ere controlle l by irradiation Fibrosarcomata are not as favorably influenced by irradiation as other GILBERT I THOMAS M D types of tumor

MISCELLANEOUS

Wes on M B The Clin cal Importance of Buck s and Colles Fasc æ S g G COb1 97

Buck s fascia de cribed in 1848 invests the corpu caverno um and embraces the corpus spongiosum in two layers one going above an I the other below it It constitutes a continuation of the suspensors ligament above and the perineal fascia below and l terally In 1811 Colles des ribe l'a fascial laver attached to the external laver of the triangular ligament and the ramt of the pubes which runs around the dorsal a pect of the superficial transverse permeal muscles and then lot n and for ard under the skin of the perineum and scrotum forming the outermo t fibrous sac of the testi le The Colles fascia is continuous with the dartos muscles in the scrotum anteriorly with Scarpa's fascia and the fascia lata laterally with the superfi ial fascia of the gluteal region and posteriorly with the circumanal fasc a

If a rupture of the urethra occurs anterior to the urogenital diaphragm the extravasated urine is confined by the penile fasciae and the swelling is cir cum cribed. The common pathway is ventral and the extravasation is confined temporarily within the

perficial permeal interspace. As Colles fascia prevents the spread posteriorly to the ischiorectal lossa and laterally to the thighs the swelling tends to pass from the perineum doi n to the crotum and then up over the pubes beneath Scarpa's fascia on the abdomen as far as the avilla If the rupture occurs di tal to the progenital diaphra in the extravasated urine ; held forward by Denonvillier's fascia By dissecting up the peritoneum from the bladder the urine may reach the space of Retzius extend up to the diaphragm or pas the inguinal ring and appear on the abdomen

Five cases are reported Case I was a case of hamatocele within Colles fascia. The patient a man 4 years of age was struck in the left groin by the end of a board he was carrying He experienced The patient is allowed to sit up after forty eight hours and after a week is able to void. The wound heafs in six vecks

An infection or sloughing follous this operation and there is no shock or hymorrhige. The necessity

fo an in Iwelling catheter is avoi le l

The author reports upon t venty t vo such prostatectomies with only one death a mortality of 4 54 per cent B MANIN F R LLER M D

Davis F Perineal Prostatect my Under Sacral
Anasthesia 107 Cons cutiv C1 ces with One
D ath J im W 1 027 | x 84
Davis attributes the decrease in the mortality of

both the periodal and the suprapulic prostatectomy to the folior ing factors

Ceneral recognition by urgeons of the value of

pre-oper fixedr na e

2. The growing appreciation by the lasts of the increased langer of delay of treatment.

The more general use of sacraf anysthe 12

4 A ore Steful attention to hem states As a result of the elactors prostatectomy has been rendere I almost a said on the switch formers, were poor tasks as the le er may roperation of hetriotomy and appearated my.

In the author's series of toy con ceutive cases of perinetly provintectomy prior ned under series that the average as of the pritents is as 6 y as. There were eleven cases of epully now, one of urcharactel fistule one of peril tent usuary is fully and one of unsatisfactory unnary outlook. If M.D. Ews H. M.D.

Kreischmer II L. Pe sister ce of Symptoms Mr r. Na osta t v. J. In. W. J. 1971 19

The author reviews sixty six cases 1 which was a tomy 33 performed by oth r surgeons. In tele there had been to operations and in one three operations. The average time since the operations.

tion as one and one third years
Thirty three of the patients stated definited that

they dd n t bean any rehef from the operation be leaved detared that mee he operation he symptom had ease 1 I it he were un lecided regar hing to the result I complete cure corts if to the test that the statements had or urred in four cases. The patients strated that aft it in operation the improvement was sloo but hen massage and to the testament were nstituted in a right Partial improvement occur ed it to a est. Three patients dank been steriles see the operation. One repet only the test of the testing of the

The principal smitom as a ur thraid charge in thirty two case frequery of unit tion in twents five octurnal urination in ur and burring of u ination in the Another symptom was particle tell periodum blidder or grow. Rheumate a symptoms of versious joints were raiber minon.

Exam nations to determine why the ymptom persisted revealed to o predominating lesso s viz (1) strictures and soft cailly bleeding granulations in the urethral and (2) extensive pathological changes in the protein gland or seminal vesicles or both

In the series of sixty, six cases rectal examination revealed normal conditions in ten cases and path ofogical conditions in forty seven. In it records of ten cases the findings nere in tasted. In forty one cases there was evidence of pus in the massage specimens.

The data for the urethral condition are rather incomplet. In twenty seven cases soft easily blee ling granulations or stratures were found but in ten cases notther structures nor granulations. e. present. In the tecords of tent nine cases no

ure thrat fin hn s are given
In conclusion the author states that the fa ure of
the continuous the author states that the fa ure of
the continuous the continuous that the
three three three three three three three
three three three three three three
tates and seminal esseles which must be combated
to appropriate I c literatum to

CLAUDE D I CARE L M D

Campbell M.F. Torsion of the Spermatic C of Reg. rt of Fift en Cas s. S. f. Gy. 5-Dksl 9.7 xl 3.1

Torsion of the spermatic cori s an au I rotat on of the cord in either direction with cutting off of the blool upply to the epil tim and test le and concomitant I enl and in neutre cases systeme symptoms.

The pried po ngf tier are on a talmalformations such a subnormal mobility if the text to meet it, see nil die te ties a op and law gubern uitum a pai mis inca vorm ha ane die meeters and two characters and the control of the characters and the characters are characters and the characters and the characters are characters and the characters and the characters and the characters are charac

The on et of scut to so is at then ithe evident in the extended by the start at the part is the testification and by the start at the start at the extended in the extended in the extended in the extended in the extended at the extended at the extended extended in the extended exten

not ofte i made unless it is borne n'm ad ne ses of epi'd dynit s occurring i your men with ne vile ce or h t n of ureth t's li neer ld or recent gonorrhoa may be misle ding The dusgno is she act upon the cutene so the n et a d erit of the ymptoms. If the testude is in the ragunal canal the differential diagnosis from herma ne

Conner H M and Bumpus H C Jr Essential Hematu ia and Its 10 sible Relationship to Pu pura Hemorrhagica i J H S 9] 1 1 76

When the findane of a competent complete unbloged examination are negative saye for bledge from one or both before when neoplasm lithings or infect on do not centuate and when good heard in the meaning of the control of the same and the sa

Quints in 1020 studied th renal pelvis in the operative spe innen of two cases of hematura of the so called essential type. In neither case vere organi ms demonstrated though in one there v as distinct euden e of an inflammatory reaction with vascular inju. The hemorrhage was from the pelvis and renal papille. Large thin walled vascula channels were een beneath the pelvie epithel um and bet een the el hecting tubules of the pyramids but epithelia harmorrhages we e peem Belleving that focal infection might cau e such the ions. Bum post and More e inge ted another the organization of the particular essential hermatura is but the result of the experiment was nevertice.

The analo v of bleeding in the so called blood d sc asias ugge t d it elf and it cemed that some cases of esse t at h ematu in might be explained by a deficiency in th omboplastic substances. Hæm turns s not unusual in the purpuras and in hemo phil a Blum and Praetoriu ha e describe i purpura confined to the u mary tra t with purpuric areas in Conner obse ved everal ca es of the bladd menorrhag a without local cause which he ascribed to a leficie cy i coagulation factors. He bel eyes that the same explanation may hold for other local hamorrhages It besides the coagulation defect there 1 a loc 1 pred pos ng condition su h as increased a sular to of the mucosa or local zed nfect on the possibil tv of bleeling is increased The therapeutic effect of pelvi lav ge with silver mitr te solution suggests a local lesion

In Group I there were filteen males an i seven females The oldest patient was 67 years of a e and the soungest 10 years. The average was 42 years The duration of the symptoms ranged from twenty two years to two lays the average of twenty one cases was almost six years There was gross hæmaturia in all but one ca e The soleen was not felt in any instance. The tourniquet test was negative in seven an I not recorded in three On an average the erythrocytes numbered 4 344 000 the leucocytes 7 800 and the platelets 141 000 (nor mally 00 000 to 250 000) The hamoglobin (Dare) was 72 per cent the coagulation time five and three tenths minutes (Bogg) and mine and four tenths minutes (Lee) the bleeding time one and eight tenths minutes and the calcium coagulation time the reathrombin time and the clot retraction time within the normal limits. In the eighteen cases in which the Wassermann test was made it was negative

In the cases of Group 2 the details of the clinical and laboratory evidence did not present important differences from Group 1. The platelets averaged 131.000

The average platelet count in twenty two cases was less than 150 000 that is a little more than half the normal There was a high percentage of positive tourniquet tests. In Group I there were two cases with a history of easy bruising and in one of these a few purpuric spots had been noted before examina tion. In one case in Group 2 there was a hi tery of easy buising and occasionally a few purpure areas Symptoms and laboratory evidence of pur pura hamorrhagica at peared to and one half years after the onset of hamaturia At splenectomy in April 1025 hepatic currhosis with moderate ascite was found. In twelve cases of nurnitra hamorrhagica in which operation was performed at the Mayo Cl nic within the last three years the average pre-operative platelet count was 85 000 In ca es of recent hemorrhage without evidence of purpura hæmor hagica the average platelet count 1 45 211 000

This study is presented in the hope that it will proceed further consideration of the blood in the investigation of these cases. The evidence is not sufficient to prove that es ential harmaturia is ever a localized purpura harmorrhagica, but in some cases is at least suggestive.

Herrold R D and Cul e II The T eatment of Acute Gonorrhoza w th Ant septics in Gelatine J 1m W 1 927 1 459

O er a period of approximately, to years the authors have been using as the unual t eatment in gonorhiea injections of a 400 neutral acridavine in 10 per cent gelatine. They de either the technique and repor it their ress via. In their op mon the unique of neutral acriffavine in gelatine has given result of incutif acriffavine of any pric ous routine treatment. The incidence of complications has been lower and in the uncomplicated cases there has

very little it comf it at the time of the accident but th next m rnug the ser tum wa enlarge fan f I the the pensant ser turn we jured A piration r veil Hisrge quantities of H hich came from a refture of on of the velos of the panginflorm

In (ne sther was al cer plack thof littre tith urin is extrava att n e nf ned within Buck's I can at I swelling of the lac of the pen s. The fatient wa a man at a are of age | or several m th le hallala ma about the iz of a tra atriched to il bulb at the penser tal juncture The tal is was con shaped with a large welling at it the which apparently sort unt lit h h cull till be palpate I in the r cun | ma full wa pened I a cauters blade through an ent neither and are sted with mercur schrome. Le

ry with g I function result I

In Ca sti e was extrasanatt nof uti e nithin Bu Laf carf ll werk theusenfa Kollmann lilator The just at a m. 44 years of age compliant ! I had a pain a the left side in lettrate surrapulse is a life ju se furmat a litem ne to three to fire o er b halbeen un ler m re or les e it it trat i if ty tatitl an I seminal vestr ultı in t aft e treatm it with a Kollmann the r m present the pen crotal juncture

(a e 4 3 th case fa man abserts of age wh tatal all textrava its n fur; which brok the och B & f cir with the I that not a pen neal tul lac mplicati a lacut gam rrh ra ama upe r latth root I the penis Before the be m f uil cient t i warrant an 11 mpt at pu ctur ith a cauters the gh an end a light area fr fe appeared at the right lo r it operation the f t in wa trir fti anu f nit pen into th full immediately in front of tle tring its ligament

In the can at cess leveloped within Lucks f 14 f ll ing the Junch eperat n with a result et urethral t tula and urmary t continence. The I il nt w sa men 45 se rs of aze Wh n be was n by the a th r le hal ur thrait tuh at the pune er t I junetu e On ace unt f urinary fre fun le 1 ulie entimeters of estival ur ne il a lere me listars eret und Soung stunch So 2) a 12 I with gr at dil cults on a c unt f tight no of the mertu. In the no leuting the ext r al flincte s ut and the lone fatte n f fluck s fascia penel At the entitl it I a ther tanlik s ell mat the pe er tal jun tur hich suptured extern lis at 1 le harge I ju ul at urine Temporary Inc numenc resulted

In cerclu con th author s that winners extr att noccur when there i all hin the mucous membrane With uch it is on monly con lier I a complication court gafter supture of the unther by stern I vi len or [riurethrel alere with structur it is not unusual to tal it following the

un uccessful p s the of a s und hound sturch or a selvet-eye cuth ter on a stylet 1 styl i should be u el only with alpha-eje catheters s'nce the poi t ten is to ship through the ey of the or unary catheter and penetrate the pice of R izius the weake t porti n of the urethra b ing the r f imm fately behind the triangular I kament. When for e is well in passing a oun la slight tear is often mid in the walloft! urethra This u ually heals pontaneou! but if a glutton of f sta sit m bermanganate is wed afterward for freigation il uch ng and extra a tion result

In size sof a gland flittes may be folk wellby urinary extra asation temporards restrict d t a localiz It ortion of Buck & fastra If it is e acquated by means of an et en lancos n a fistula per rall re utt The operati n of ch ice is n intra urethral suct a made with a cautery through an end score an I the me t att factors i et ating soluti n : mer

curochrome

Buck a fa cia C lles fascia Denon ill ra fa ci and the triangular I gament are con i lere I impe e trabl bulgarks but the an ote istindammators processes Hence when ext a asati ns are com pl c ted by neer sis the fa cir no longer act as bar tiers and the in-observent (flows one cected naths I atra asati n will not si rea ! if there is dra nage an inec o i can be pre nte it suff cent per cent mer urochrome is kept in contact with the ti. es CLAIDE D H LEE VID

Play r I I and Cilling's C. L & Withod fe tl Cure (Urin ry Incontine c I the Mal Pr lin in rv Rep t J im If 1

The suth rater mac es which a tramplist of the grail mucle w emplo ed in an op tati a to cure urina v in nt r e f lb g sufrapub 11 statectom

The m thid const tell in sener li the entirel me t of the corp is ca e n sum rether with the termir al po ti n' f the tran planted grac la mu le it! The as cl s 1 the m mbranous wethra as ; oper toin c n itel fthree stay s () a per n il sposure through the mill a (the miscater r sum ut thre by bl at t ct n () a thigh soci sunt exp so the great much with a necreation upply and of the mai pr vin (b) d n ! e (3) m meithigh an i pera se Ima u erin h h th con sea r um with it contained as rou ureth is entired to ear the in genital dry hragm bi ith th it I f rimn of the tran plant i я (ж arach muscle

the authors pri t as tot livi con S her tine t priv to this oper to be n h s perfect burs if ight leguen r Then record estim tel thet cenosa ! preent fh rei

n res lual un e Insteum tate a h I se esteld tact tal tary contraction in the ir nipl tel mu cl tr M D

In the cases of cancer of the tests it le treatment ron it oil nej il homorachi lettoms albue ni set cases ej li kmo-rachi lett mi jlov ra lum irra dati ni njone ra lumi irra latuno al ne ino ne and Vra irra lati onal ne ino ne li homorachi lettom oil nei no lettom esta dati ni njone ra lumi irra lati onal ne ino ne li herialignanti te ti usa un esceni feli no nol), ne oil herialignanti te ti usa un esceni feli no nol), ne oil herialignanti te ti usa un esceni su subjecte i lo eji li kmo orta i esti usa un escano alla proporti vi eli ani i uso morta di esti un uso ana appurenti vi eli ani i uso morta del fine albi mirali metalata ce si usi monta li del fine albi mirali metalata ce si usi monta li una done ani Varsa slone were use l'ere fatal

BARE 1R states that ancer if the IIa Ider is best treated with ra hum as not has therapy there is no operative mortality. In Table cancer ma may be treated with ra 'urn an Ireduction of the resi shall have be the punch operat in Incarcinoma of the punch operat in 12 markinoma of the last hard to press the treatment may onsist in the d ral slit operat in 72 hum ura I auton deep. Tax treatment of the incumal elinis and the Le of the ral with

nach. The inguinal glan I are treatedly a combina to n of feen I ray therap and the ra hum pack with the implantation of ral um in any plan is us nexted to be involved. In teratomy of the tests irra fintion has given n n ferful re ult The testicle is thoroughly irra liste I with the ral um nack an I the course of the spermatic vessels on the the affecte I is irradiate I with the ra hum nick or deer Year theraps. The only operation that is dine is the removal of the te ticle under last and thema The cor I is cut first and the testicle then removed from it be! In orde to prevent the lis emirati n of the carcin ima care is taken in the removal of the testis not to squeeze it. Of f rty nine patients with inoperable meta ta e 20 per cent are free fr m signs of the lisease. The large t peri loffr e lom from s gas of the condition has been six years. All the re ults seem to inficate that ura liation gives a better prognesss than operate n William & Bry

WILL WARE ALL

been a marked reduction la the petit hal time required fra cue There bis l'en n tel also a I stinct decrea e in the sen lix ha apprently ha lecrease in involvement if the urethright han! bealised at to ful est nant Inflitet na fact all hocem t infrate th t there were f ner lat or sulse quent g n rit al clanges (! wing it a mett fof tre tment I t C CRITH W MIT

toung If It and Waters C. 4; Deep R sentgen Ray and Radium Th rapy in Mallanant Disea e of the Center Left ary Text Im J

I any nel Waters report their results with leet roentgen ray and rad um therapy in life se of the genito unnary fra t the rensi need a me treated were Ift en bygetner bromat with ut ricla ta : ar I fee typeraente mata with nets tan sa load quest of a fine of top perce t was goen at unit the gorie at fat fin ac caleases in which ratical rem val wa len malte a just alle th allies read we tree tated The re-ultrelin every In ta ce in shristage I the tur or One put ent terni two years with ut execut en of recurrer The pala a water with I fer the me i ft n great te evel to im faint

He ti Her turn is tre tol a th f p minteen It a tone then ton enough t close a stail and I mate me nerftesting ja lia artinomit an l suverf iland ter intiter ting a niner to liv a embhatun f ful cratim with the etr vel l amplyate o fratum to the il e of the t m t on the ochant a 11 estrution fibe act noma with the Ca ters after unt ; la ir a n n the other land at it 75 per tol tumer a be lett vel the leveral start ent live es in whit n ifer there not not be all rail m treatment fler any chi e ! ure

In be an grout t I g etnight the general r sult of fer eventeen theraty and ration to st ment have proved a satisf it is in arcin ma if the f it etfe mitnet us I rah m ni the swrite near h s given ex ellens e lis. Th ces s time there tehn has the been immediate of a tinfred eith the protate ha retuined to patt alls it in small be it on ting tens to Th 1 cures can be I med but in man a tthat was relieved I s were mit Th inc cases I are ma I the jet t t e tel with the e mitned treatment h e fren rhabl r it

The author believe there t no fill in n 1 1 in which rate m and so nte n ras therapy more more sate factors result than in u in halson can be appled seva match 11 11 y 1 ute n II ale thral and restal apt to ator n'i tenign as well a milignant ! to The omt red method flees more b ne t tive there had tained to the unit att not 1 7 ne trent alia tion with rai um are t ther he ih i m i gi en from 600 t 400 mgm hirs trai um therap tel re the rie tgen tay treatment : 1 cgun

TRIMA F FE A M D

Walter II W. E. End flee fte in Genito-Lel arr Brige BS bt in of it in (entre

Trinary Carelin ma illiadd e feo tate Pen s 3 1 1 1 3 15

Buttura erei to brecton its a e of e to uniary can er ex line I mal hant at the f the Life There wete f riy ses heaves ele f of the tfaft'r thirty n of camer Itleg ostat s of and of the penf ht fean er f the te to Ball rinvolvement curred rquently letween the acre of to ming came i thies mm niam! infrace Thetest m at facialed the accept to urm al procedues raf mur att leef tearthip anteleuten wete ber tiel a I se en e af arentls en 1 Infeastlere Read I tem ate Inf r the c it a remain i un ha c i m t the groth a rtarr stella linonethereut we etken n. Topstet litth b fisht re the computation of the trainers. The happets of and the most test the most the after the path of a figure and the hoppets. The patent e malnest well att e five ears. Of the facility tot with talumal recited her

f mt et tr tm nt with th cauter at railum r with th 1 2h freg r v uret 12 I mi feltetter Whatetla trrept mba alian e le nitte tale at while t ma erel muh an ber petif msra! L sitetm

partifile tax ates et a 1 training of left the Site of the 11 with an er (th) tax is tal la little of the or the control of the control 1111 tunent t tat th realt e ut he ben that I lat in letermirate 1: or mil faces T Po 53 8 55 th act the est t b lead th tmit lbetu nit itet almit tanet the hospitanith im fie theart

form on m thirr is in fathere there mit tin im raft i ine n 1 bl te 1 the reference f atop 1 az testin almirit to preglate t three mout! al netre are lia lihr titi Oi 11 thee # st stattl mutt getl litthe tloth be netele et in e e neil mint af e t mutt jiu til tralin un lat to one age till til tralin unlal to unet age till three e be rit i a fa tid at ligt til tip tet ree gasan at tresim at fare! Il the gri ralimate at

treatment fare! If the give rad mite at rent line D the ngur let timvine I n ti with amputat gave en o ragi re alt

The enlotheliomata are characterized by a laminate 1 appearance of the cortex slowness of growth and the production of a diffuse swelling of th shaft of the bone which is usually local but may be multiple Metastasi occurs but a favorable temporary reaction may be obtained with radio

1 eriosseous fibro arcoma apparently arises from the periosteum. It causes bone absorption by pres sure It is usually of rather slow growth and fairly

well encapsulated Osteogenic sarcoma and myeloma are described with special reference to the clim al and roentgen

In conclus on the author dis usses metastases to

bones of sumors in variou tissues and the areas of pre lilection fo such g owths

The article ontain case hi tories and illu trations of the vari us types of tumors

Fisler A G T The Experimental Product on of Acute and Ch. nic A thritis and Articular Neoplasm by R di m. b. 1 M. J. 1927 1 3 9

The author sentures the or mon that the prolifera ti us in hone in cartilage occurring in osteo ar thritis are i terme hate between an inflammatory ni reoplasm In attempts to produce the two onlition an I flamm tory process and a

neopla m in the kne | int of the rabbit by the same

ag nt rad im as used A all as tube ontaining o og 8 mgm of radium bromi le pla 1 n the k ee joint of a rabbit pro du ed a nd te n im lar to osteo arthritis in nine a mem of adjum in three platinum tub s o lu i an a ute fulminating destructive a th it; in lew veeks 44 mgm of radium in one plats um tut polu ed a chronic or rheumator! cl en m nths and 0 46 mgm of ra hum in two pl tinum tubes pro lu ed a large absces and a a om t u ma infourteen months

Case hist res illu t ations of gross tissues and mi rodingnoses re n esente! The author states that m'll am unts of radium in gla s produced I literative changes only larger amounts in plat n m polu i d tuctive changes and smaller amou t in platinum p oduced i regular prolifera ton admalign ttgr th

O Il MERLI SK [/

Kig J M Jr a d II Imes G W ARe wof 450 Roentgen R y Fxaminations of the Sh ul dr tm J h it I g x

In ord r to c rta a thy coentgen examinations in shuld r es gie ng tie fodings so fre quently the auth r ryuwed all shulder cases seen in the oe tgen d partment of the Massachu ett t n ral Il 1 stal in th period from Januars f) s t June 1 926 Three hundred of the 450 c c thu r 1 cl ere n gatt from the roentgen tanis nt Of th rem in ler ninets seven shone i f ir ture or dislo att n thents of ac thr t thr te n of subscromual bursits and the re

mainder various lesions of less frequent occurrence In the discussion elicited by the review attention was called to certain anatomical and functional peculiarities of the joint which not only tend to prevent the production of changes seen with similar pathological processes in other joints but render such changes undemonstrable roentgenographically when they are present. The common occurrence of shoulder pain with other conditions as a referred symptom without local pathological changes ex plains many negative findings The more common shoulder lesions crusing pain and disability which are not demon trable by roentgen examinations were found to be postural abnormalities sub coracoid bursiti tenosynovitis myositis moderate attrition moderate relaxation of the capsule and a tight aullary capsule Those that might be demon strated with the \ ray included fractures disloca tions sepsis foreign bodies tuberculosis lues ar thritis separation of the a romioclavicular joint ex treme relaxation of the capsule extreme attrition

and subacromial bursitis The importance of a proper technique to obtain all possible information i emphasized and the technique used by the author is described in detail

The following conclusions are drawn

1 To reduce the number of pegative roentgen examinations of the shoulder the cause of referre ! shoulder pain should be found by thorough examina

tion 2 Both under exposed and normal films shoul! always be taken with the arm in external rotation The tube should always be accurately centere 1

4 Related capsu e will not show unless some force is used to rull the head of the humerus away from the glenoid ADOLPH HARTUNG M D

Asbury E Spondyloli thesis with Especial Ref e ence to the Cauda Equina J 1 1 1/ 1 97127 555

The author di cusses spon lylolisthe is as a cause of backache and lesions of the cauda equina and reviews a series of twenty seven definitely proved cases

Subluxation of the fifth and fourth lumbar ver tebræ was describe I by Kilhan in 1853 Neugebauer after a lifetime of study of the spondy lol thesis con cluded that the cause is a defect in oss fication of one or both sides of the vertebral arch or a fracture of the artt ular processes of the verbebra. He emphasize l the importance of injury as a factor Blake in 1866 reported a case resulting from a sudden in rease in we ght during pregnancy

The etiology in most cases is traumatic Impor tant congenital defects favoring the condition are

b fid neural arches and separate neural arches The patients whose cases are reviewed range I in age from 13 to 65) ears Over half were in the third decade of life In fifteen cases definite trauma played

a part. In five cases there was a congenital defect In thisteen cases the symptoms leveloped sud denly following severe trauma. In nine their onset

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC.

Bloodgood J C Wiat E ery Radiologist Sh uld know About Bo e Tum rs Radul ty 027

1 ray examination is becoming more and more the methol of precisi n for the hagnosis of bone tumors. Ho ever the earl er the stage of the lesson and the more i ta t the cortex the more liff cult is the roentgen I fferential diagnosis. Certa n tu mors such as the sclero ing type of sarcoma and sarcoma vith I fluse oster porosis (E ing \$ type) are e pecially difficult to diagnose

The value of \ ray examination can be increased by submitting the roentgenograms of cases diff cult to diag ose to other roentgenologists for their orun on In the majority of surgical clinics the diag nosis of bone I sons from the roentgenogram is to his more all ance I than their diagnosis from If the \ray examination fails biopsy becomes the next method for accurate liagnosis

Be per has well recognized dangers an i must be performed under the protection of thermal and chemical cauterization to present contamination of the woun I with tumor cells I atl ologists should be trained to make the diagnosis from fresh frozen The greatest danger from bopsy is the interval f time elapsing between the removal of the ti sue for diagnosis an I the resection or amoutation If there is any doubt from the \ ray examination or th microscopic stu ty as to the pre ence of definite mal gnancy it is best to treat the condition as benign becau e the hanc s of its being berief a e greater than those of its being malignant an I the probability of curing a malignant con lition is as yet far too light to justify an amputation or resection unless the diagnosis of malignancy is certain

In grant cell tumors rai ation treatment alone is still in the experimental stage. Curettement pro erly performe I should yield a ure in pra tically every case. In all cases of central lesions of the er t physis in whi h the bone shell is intact e ploration hould be lone. If the bone shell a partly o completely I stroyed there is no objection to giving the nat ent the beneft of r diation first. This applies also to cent al tumors of the shaft

Up to the present time practically the only verified cures of s r oma of I one are those which have fol los ed amputation for le ons of the los er e tremity below the upper third of the femu. In the author s list of cases and in those collected by Codman there are no verified cases in which a cure has followed an amputat on of the upper extremity of the femor In the reg on if resect on ith restoration of function cannot be lon ral ation is neces ary

Although it has given a successful result from time to time radiation treatment bas not as yet ac complished very much. It has been more b neficial in sarcoma of the soft parts No harm is done by pre operative radiation but operation must not be long delaye! In secondary bone tumors radiation is indicated for the rehet of pain but does not cure C ARLES II HEACOC 31 D

Meyerding II W The Pre Operati e Differential Diagnosis of Bon Tum rs / A: # 4 927 12 242 3/5

The author has slightly mol fed and rearran ed the classification of bone tum is of the Ch cal Pathological Association and Sercoma Registry so that the tumors progre s I om the traum tic and infectious through the benign to the most mal. nant types as follow

I Inflammatory les one a malating bone to mors (osteopenostitis) traumat c (call us oso fying harmatoma) syphiltic infe ti us (non suppurative osterti of Ga re B od e absress tuberculosis)

2 O tertis fibrosa cystica cysts

- 3 Benign asteogeni tum s e ostosis oste oma chondroma fibroma
- 4 Giant-cell tumors Angroma
- Endothelioma (Ewing & tumor)
- 7 Periosseous fibrosare ma
- 8 Osteogeni sarcoma
- Multiple myeloma Q to Met state tumors

With a complete histo y clini al examinat a urinaly s Wassermann test and roentgerorram an expert may diagnose or ectly mae out of ten cases There is a small gro p ho ever in whi had explored and its mac o opic and m croscopic ch t eter has be a det rmine i

The inflammato i lesio s are discu sed with special referen e to the r lo atto the roentgerolo

ical findings n is motom The cyst c c nditions parts ul rly ostestis fibro 1

cyst ca are les tibe lind tul These les as utually rinth disph s and rarely volve the ep ph) sis Their growth is slow with I til or n pain and usually of recognized until the c stt area

roentgenog am is made h nd omata and fib o The benign exostose mata a e descr bed The tral chondromata may degene ate and pr fuce cysts with results g patho

I greal fractu e Gant cell tum ra a erathe comm a They cause co side able dest uct on L n osteolytic and pro duce fe tu es and marked d formity

lown along the midline and than place an osteo periostical graft in each of the vertebral grootic in their second modification they do not iracture the art cular process of but bring the prious process or down in one vertebral groots and place an osteoperiostical graft in the other. Viter the operation plaster immobiliarytion is continued for from three to eight months depending upon the critical plaster in the other very second place and the other very second plant of the plant in the plant in the plant is a second period plant in the plant in

The operation is not serious and there i little bemorthing of the grift 1 p seed tightly against the bone and held by a tampon \(^1\) pecumen removed fixe month after the operation from a pattent by the month after the operation from a pattent by the month after the operation from a pattent of the month after the operation from a pattent of both on the late results have been excellent in mot of the cases. The authors believe that the method the better for young third remove the first hand habe a smith \(^1\).

In the I cussion of the eport TYPERF and that he had use the Mhee and not me mth of in a large number of cases if Potts die ease in a lole cents and adults in the pat twell ex a.s. He hash alm us better results from Albres seperation than from posterior ve televal of toos wither. The result has even the company of the posterior when the services were the services and the services and the services when the services are the services and the services are the services are the services and the services are the servi

Source 11 that he ex mine I Defully see 1 ien and found the pt below all feu I dily immo bit zed but that he ha seen the ame sult from dienent techniques. He bele es that More technique usually to be preferred because it is the simplest the quelest and the most been hot when the gil bosity is quite cute so it is quite to the in the doral region the o teoper i steal graff may better the most been about the better.

Dut 1 P Albee's Operation in Pott's Disens in the Adult (1 p po d 1 pc t d lift (1 1 m ld P tt h lad lt) B ll t m 5 t del 9 6 1 AS

D val has p formed allees operating near cas of I ts disea en a luit in his hal late report on he of the cas. On of the patients of a probable from bilateral renal tub real. The four others a e well and hier dhard rich two there a mad six and a half ears repetively after the operation. In Duvi is op aion the effect of albee operation.

simply an immobilit in lut the minobil tun in unit more pict the name has a complish to have extended the name has a complish to have extended to the late of lotts duce it thou this minimation this pen have proposed on it penerally be present in lamer in frost in the control tuner in the late of the late

is forme! The can be letermined by roentgen

examination

Early operation 1 ju tifial le only when it is simple and free from danger. For the reason Duval prefers Whee so operation to the more complicate procedue so of litob. Calve and other. It is estimated to place home between the sitt spinous proce ses. Du al does not fashion the graft carefully and fit it to the gibbo ity is wilbee doe but takes severty precess of lone cut from the tibia with secsions of an analysis of the procession of the process of the cut of the process over them. The operation does not take over it enty inputes.

Quick B The Tre tment of Acute Suppurate e

Armers C M P as MD

7) 1.90
The treatment of severe sep. 1 of the knee joint by transverse arthrotomy make onsideral to demail upon both the patient and the surgeon as the convalescence 1 long and traing. However, a pain les shont ank-lost of the joint; very mit me acceptable 1 most per one they are attack that legs 1-type-trene also will tell when to open and Iran in u h ca es and when to amputate. To late the uttoo h septored severence ace stread the tuttoo to reported severence ace stread with the output of the tother of the second severed and the second severed and the tother of the second severed and severed sever

SCW 10 BR MD

Cilm u J The Osteoperl steal Graft in Dan glefoot P i M J 9 1 3 2 The teoperic teal graft as used by Morison and

M chenzie in paral tic danglef of his been employed by the author in preference to a tragale tomy and to the fixation of the a tragaloi I joints. Bone growth of the t an plant is all unitant.

In the cre 1 a boy 14 year old two posterior of teope osteral praft were used for the correction of dange floot. Metr fixation for six months stablight of the foot a both red but rotat on of the lost rejight of the think had o curred. The rotation is a tublished due to retail dation of the growth of the potentry potton of the epophys which was fixed by the o teoperosteral graft.

C remu t be taken in the placement of osteoperi osteol grafts. The grait should ne er extend acro the epiphis scale line. They are to be used as osseoulg reents and should etain sites of implantation correponding to the l gamentou attachments.

Freacox 4 Cus. purs. M.D.

Freacox 4 Cus. purs. M.D.

FRACTURES AND DISLOCATIONS

Campbell W The Only Graft in the Treatment of Ununited Fractures of the Long Bones

5 th M J 19 7 x 17

In the article an allit onal servicen cases are allel to the eventuen cases of unwanted fracture reported by Campbell in 1924. The bones involved were the femur 19 six th humerus in twelve the

s as insi hous Two ca es were si mptoml five per cent of the patients compl ine I of by kache lo al r int the fift lumi ar vertel ra veakne an i malil ty to carry a heavy loa ! The on et if s mo toms ma l cither gr lual or sullen

The tel scop I appearance I the trunk in the well developed ase is marked The ribs impit ge on the il 1 1 p eu la kaphe s d e to the prominence of the fir t acral p ocess is note! Ih off quits of the celves to t in I the hips at pe r to be wi lene ! The patient las a w I fling rate Il vil thits of the time i on! Ithti imprire! an i mu le spr m

occur in only an oc a ional ca e

In the leagno s vaginal an I rectal examinations are I little at I except in extreme cases Spon Isl listh is must be inferentiate I from luml ar lott's h er e fractures of the vertebra o termilion kiemmell d e anlinchets

Cauli n of em nt 1 cemmon It occurred in at en of the t enty seven cases re e el It vas exilen al most fr quently by herve to J or ner e 1 3in with backache

He auth r lyou e the mechanism of nerve

notest vi l'etern li vation l' e et a jacket a brace er tracting est minerary rult. He al hance f permanent corr ti n t flere ll's peration The

Hill eithel regrating per t n f like Even TACH LLER MD

Ochlecker F Sacral Abice of the Co genit I Skin tacto ton (5th | b = 1 k s 11 lf t t VI

S ralf tule and al ce es are vell kno n theo rett if the are very often me te tem eted when no d rm il contents ar f un i in tiem r when off mmit es amptoins pre l min te Ires n his onl a temporary effect and I is not effect a cure The clini al picture i interp tell as the tof tuber ul i resi tant furunc ! ranab e s result ig fe m periproctit The nitten 1 spread t war the grus The fitul us ope in s u ually in the midline

The author d cu

the level pm nt of these lition from the vie point of emirology ni le ribes the liff re s between them and L & s fi tul Ma felung ha pointe l'out the relatio hip lety cen cavitie and small holl in the sa ro co ygeal region to sa rai al e es. Th autho believes il at at the time of p b riv sm il pirt no of s in digle l turing embry I geaf l el pm t pro lu e sm Il hairs whi h grow int the co a tive it ue at I favor th f mation I gra ulomata 5 h colle ti n of fairs an b een n the m o peji ture

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SURGERY OF THE BOYES JOINTS MUSCLES TENDONS ETC

So rel 1 The T eatment of All Cases of T ber culous O teo Arthritis by Bo e Graffing is I t it m nt par lsg ff so ard fut o tho-a th 1 t be culcuse) B # 1 mtm Soc 1 d h 1926 1 1 52

The auth r is very skept cal regar ling the mar vel us results from bo e grafting in tuberculous arthrets hich have been reported by Robertson I avail of trg tina Sor el pert emed t o su h perations in Om) redanne s clin c but one of the children d e l an l the other required an amputatio Mou het an ! Ombr lanne tred the operation in four ca es but none of the patients seems to have leen benefite ! by it In one of the ca e the condi ti n was a juxta art cular tuberculo s without involvement of the j int a condition which fre quently become cure l'after imple cur tiage but following the one att n unler I seus on the shid re overe! ith ankylosis of the J int and the time require i for recovery was as lon a if no graft had luen use ! Becau e of a ch results Sorrel does not f el ju tife lin trvi git lurther

trp y C 1 Gt WD

Riedel: Operati e Tre tment of Paralysi f th Opprenen P lifels 10prt f h ling d Opp l lmin) / life Ch 90 l

The author reports a case of paralysis of the opp stens polli is de t ante sor pol mielt Witho gh there as fre movement in the wn t the median n I ulnar nerves were part il s paral z 1 and there was some mu cula weakness. The th mb coullten ther adducted nor apposed Spreadon

of the ting es was impo sile I free tran plantatt n of a strip of fascia from the I s 11 lata I the th gh was done One end of the fa 13 w s silt and wound o ce around the first metacarval in lone aroun lithe fifth metacarpal a ther patt In treth palm r fascrt and sutu edt, it Through ut the of erate a the thumb as beil no range ran

A u ce ful result with compl to active flex on of the thumb as obtained The auth rasenbe the return of f x on in the thumb to the action I the Rose str (2) prim rator a music

Gill t M nd D h fly C Thi ty Fou Ca Oste) the stori tra Disease (1 popus de l'est) translate (1 popus de l'est) Billimém 5 i d'h 9 5 li 44

Si a the fist report which the author made of Hills operate they has e used it in th t four m e ca c of lott d sease It f t they use th unmolfed II bbs meth I but no they ald an st ope teul graft in all ca es In their first mod f at on they de u! the p nous process s and th I m ne of the ve tebræ fra ture the art cul r proces se ect on the p nous proce e and bring them

Severe crushing injuries and fractures appeared to be typical. The force producing the injuries was therefore usually severe Not rarely

infection and gangrene developed Special attention i as paid to a careful roentgen d agnosis-plates taken in different planes sometimes stereoscopic exposures never mere fluoroscopyand to exact reduction under ethyl chloride anasthe

sia Extention i as applied only in fractures of the femur oblique fractures of the leg in the lower third fractures of the surgical neck and in elderly per sons supracondylar fractures of the humerus Dur ing the last ten years wire extension has been used The Steinmann nail is not favored because of the danger of infection and the pains on prolonged recumbency which are associated with its use When wire extension is employed these sequela do not

Great importance was attributed allo to func t on il motion therapy according to Boehler smethod Therefore the fundamental principle of immobiliza t on of adjacent joints was disregarded and the cir cular plaster cast was omitted The fact that even the observance of this fundamental principle-in fractures of the le for example-does not always a sure absolute immobility of the fracture fragments led you B unn to substitute for the circular cast a plaster splint applie I directly to the skin 1 ith con stant tractio on the fractured extremity gives very good result also in fractures of the upper arm Extension is still the normal procedure only in fractures of the femu but may be of value as an aid to reduct on in cases in which the resista ce of the muscles rend s d ff ult the retention of the fragment and in cases of compound fractures in which open treatment of the wound is alwa s

In the cases reviewed medicomechanical treat ment wa begun a few days after the injury This app oximated as closely as possible the physiological moveme to For psychic easons active motion of the factur d ext em to a as allo necessary med comechanical treatment pa alleled the anatom scal healing As a roult of the observation of this basic principle the duration of the treatment was relatively sh t exceeding the time necessary for consolidation by only from ten to twenty days

The funct onal esults were always very good even when the an tomical results were not Freq ently the good anatomic 1 e ult achieved by open reduc tion was followed by a very poor functional result The use of Lane s sphut is to be considered only for subcapital fractures of the upper arm and ce tain f actu es of the fo earm In the cases reviewed compound factu es were never immobilized by foreign bodies

Mining coud tion re favorable to the healing of fr ctu es as coal and stone dust are practically The fact and the fa orable age of the patients e pl in the very sati factory results of treatment with rap d recove v of the ability to nork and low workmen's compe sation

The article is supplemented by numerous tables roentgenograms of interesting cases and illustra tions of special method of treatment

HACKEYBROCH (Z)

McBride E D Dislocation of the Semilunar Bone Neurospastic Fixation of the Hand A Defor mity Characteristic of the Injury 1 ch S g 1927 II 584

Dislocation of the semilunar bone is the third most common injury of the wrist The progno is is unfavor able unless the condition is diagnosed an I properly treated early Eight cases are reported Four vere treated by excision of the di located bone three by open reduction and one by non operative measures In the cases treated by open operation the results

were very satisfactory

All of the eight cases showe I an attitude of the hand for which the author sug ests the term neuro spastic fixation The fingers are usually flexed slightly more at the terminal joints than at the middle phalangeal joints while the kniickles are only slightly flexed or fully extended or lente ed There is some fullness at the base of the palm near the middle of the wrist Voluntary flexion of the fingers is possible but closing of the fist a impossible A spastic condition of the intrin ic muscles of the hand is present and may persi t for several weeks There is a glove I ke park thes a

The author re news the op mons of variou sur geons regarding the treatment of dislocation of the semilunar bone and draws the f flowing conclusions r Redu tion by man pulation vithin three days can usually be accomply hed with a good functional

result 2 Exci ion after two or three weeks results in good function but some permanent weakness

3 Of en reduction promises as good a return of function as removal

4 In untreated cases there is disability of from 25 to 75 per cent

5 In old ca es open reduction should not be attempted exci on is better 6 In the presence of marked fivation and degener attre change removal will releve pain but will

improve function only slightly FREMONT & CHANDLER MID

Zur berth Fractures of the Finge s(Frate bu che an de Fngern) Zick f 1 Fo 16 ld 1926 2107

Since the discovery of the roentgen rays fractures of the fingers have been diagnosed much more fre quently Particularly the uncomplicated fractures and dislocations of the joints were first revealed by roentgenograms Roentgenograms also frequently show healed fractures The author discusses the frequency of fractures of the different fingers and joints and the most common types of fractures and dislocations

The typical fracture of the proximal phalanx is the transver e or oblique fracture of the shaft Fre

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SURGERY OF THE BLOOD AND LYMPH VESSELS

BLOOD VESSELS

Borche ds W. M. The Treatment of Varicose Veins by Organic Arsenic Injections Br t. M. J. 17, 7, 1, 375

Borcherds reports a case of asphila swith various evens of the legs in which he curred the various terms of the legs in which he curred the various to advartan. He has cured piles the same was but does not state whether where or vere not as ociated with syphilis He reports two cases of sleep a lating curred with substantial arrangements and states that he has oltained good results with all arrange alone cases of various under substantial control of the control of the

HOWARD & Mck. 1 Hr M D

Wheele SI W I dec Thrombo Angl its Ob Terans B I M J 1971 125 Snith R P nd Pitterson D W Thrombo Anglitis Obliterans n Association with Syph lils B I M J 947 7

WHEFEE di cusses the nature sympt ms tretument and prognosis of thormto anguits ob herana and reports two cases. Neither of his patients was a Hebrea and neither had syphilis. Both had ser ed al r ad and both were heavy cigarette san hers. One it portions of all four limbs during a sensers. One it portions of all four limbs during a compared of all well well are. The other had the acute we will be a sense of the first attack of nain in the call him a few cels of the first attack of nain in the call.

Satin and Pavierson report the case of a man go carso fing at a to a scutter of British national. The e w 5 no history of syphids but the blood Wasse man test was strongly positie. However, the simptoms included pain collness of the feet whatmin intermittent clault atom evith ometal gia evilence of triphic distributions and gangeries of a toe. The gr is appearance of the amputate! in his and the microscope appearance of the man arteries can and nerves are described.

The thrombo is seemed to have originated in the populitial artery and to have pead progressively distributed to the anterior and poter or tibial arteric (R. R. STELNE M. D.

Holm n E Ob ervations on the Surgers of the

ligt in nf on of the large arternal trunks should be a companie! 1-50 be us on of the corter pointing on a line retain circumstances at solic 1 feat the ven pr aim to the site of the retrial fg tion of 1 g tin not the poptical artern bould be a mpunet b b attorn if the campone for the continuous at the properties of the properties and the properties are the continuous at the properties are the properties are the properties and the properties are the properties and a typh nu 1 waches In the experimental an mal their idence figurations was greatly decreased by the price tion of this rule.

A coarse ligature such as broad tape should be applied to the large arterial trunk fine ligatures out through the arterial wall rapidly

If feasible division of an artery between ligatures should supersede ligation in continuity as it decreases the possibility of fatal crosson of the arterial wall

Partially occluding ligature and crushing ligatures applied to large vessel may cause fastal rupture of the wall of the vessel. The ligature should be tied so that it will occlude the vessel but not crush it Proximal ligation of the artery for an arterio

venous fistula is cont a indicate i not only becau e of the imminent danger of distant gangrene but all o because it is entirely futile in eliminating the fistula if gangrene i averted

Following operations upon the large vessels the vound should be completely closed without frain age Sincer & IN M.D.

BLOOD TRANSFUSION

Cone S M Leukæmia—A Sarcoma Bone Evi dence Report of Two Cases 1 ch 5 g 19 7

Leukemia re embles sa coma in a flui me lium tacts like a malignant growth climcially. In the two cases reported by the author the morbid anatomy and histological pathology indicated it to be of a streomatous nature. In both cases the myclocytes mantained their place is the blood vessels in an order. The place of the blood vessels in an order to the place of the plac

I EPH K NEAT M D

Cornils F Hamolysis in Blood Transfusions on the Basis of Experiences in 500 Transfusions (U b His mol) bei Bl tt a f e an Ha d der Fitahru ge bei u b r 500 gr en Tra siu j i ch f Bl Ch 1920 € 1 577

Following a bred review of the history of blood transition in the author it cueses the preliminary test from the theoretical and practical viewpoints of the basis of yot transitions of his own he concludes that the procedule and a sixy be price fed by a preliminary test of the agalutination especially the determination of the Bood grouping recording to the Jan Steinstein Hask method. When test sera are not available crossed resological tests or a direct test of argularitation with a drop of the respectate crum and a drop of the dron's blood hould be made.

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SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Which the D. The Treatment of Burns B

For the treatment of burns the author a locaties mime | at termosal of all dead to use under general anvasthe via in lace! preferably with other. Free re mo all of both the sian and the deep mang a is indicate! The presence of deal in such results in took marked proportion of the problem of the product of multiple and the simple of the problem of th

not in tert of the control of the demarkation was exact and there is no danger of farmorthage from couring ind a or y per ent of ultimo when the couring retensive (auge is rung out of the colution and pipel to the raw of a e in close contact. There upon live and covered it is seen to determine the colution and in the colution and in the colution and in the colution and in the colution and it is seen to determine the colution and in the colution and it is seen to the colution and covered it is seen to determine the colution and covered in the colution and covered the colution and covered the colution and covered the column and covered t

Be suse of the flexibility of the resulting scar tis sue centre tures and disforment are minimal. The onvale cence susceptic and free from 1s comf t

S trunk W. E. Cont ibution to Hastic Surgery

Radia b wes in the remoal of sca s in i gi n wh e gafts are in lyisabl at a tage is then f the first that skin easily stretch s then to put und r ten ion In a cae c ted there as la ge area of carring over the ant ra r urface I the neck due to roentgen ray up sure in the te tmert i goster As much of the skin was rem e las uld allor el sure of the edges of th wound with ut te sion Only skin and sub cut neous fat ere rem vel Un fermining of the skin s 1 11 d in o d r to nre ent the formation of adnes on Approximati n was obt in d in one third of the sca area. The patient was adv ed to stretch th ski by moveme to of the neck and by mas age W th n 1 months the skin as quite loose and pli bl nd the ar only two third its original size in ther per t n similar to the fr t was then perf rme! n! ne half of the em ming portion of the ar emoved Six m nths later at a third ope tin the r maining so r was exceed To lay only a single her mains. In a number of other cssinwh b imil m th da were u et the results vere x ellent

i op pe ti f e te i r la attin f the
il pli te. A meth d i suggest d for cases in
which a gr at de l of the sphincter ani mucle has

been lestroyed an I repair by drawing the ends of the muscle together would be unsatt factors or impos tible Through a curved transverse mer ion along the vaginocutaneous margin the levator ani mu cle i polated and sutured acro s the anterior rectal wall as in an ordinary perincorrhaphs. The ends of the thincter and are then i-olated and sutured to the I vator any being brought as cl sely together as possible s thout too mu h tension Laurlly the ill cl se the anu and will allow it to fit smull around an in lex tinger intro fuce I into the rectum The wound is left open and I icke I with io I form gauge The gauge is held in position by a suture place I through the edges of the skin and tie flor els The remos I of this gaur after about eight days leaves a granulating wound which heat lowly. The resulting sear to u as is in f iris uniting the edges of the sphincter and If the sphincter nerve supply is unimplace i normal control is usually regaine i if it has been injure? normal contr l'aill n't be re guned but partial control vall be possible by volun tars elevate n of the levator and I re operative preparation by castor oil and all resulue fat i suggested I lio ing the operation con tipation is After ten days olive oil induced by paregoric enemas to ace daily and an aperi nt e eral times daily are a immistered until sati factory bowel movements are secured

Le tain m fife ti ns of the A ndol n ope ilion for eleph new is It is assumed that the type of elephantiasis usually cen in America is a couel to jarti l or complete obstruction of the riguinal is more no ie It i usually preceded by a simple lymphædema The superficial lymphatic system alone is involved. The sy tem a separated from the kep 1 stem by the aporeuro 1 covering the mus cls The kondileon ip rati n i perf rmed with the i lea of connecting the two sy tems by remo ing a la ge amount of the aponeurosis I large portion of skin and fat and subcutaneous tissue is remove ! at the are time When the ran surfaces are apposed new lymphatics and new blood we sels form and connect the superf cal system with the d en system. In the author's opini in the removal of large amounts of di eased tusue i very important The patient is carefully I repar d for operation by rest in be I with elevation of the involved extremity and the application of bandages to reduce the or iema as much as po sible lostoperatively the patient a carefully watched and treated to prevent the severe shock that often follows a ra lical opera tion of this type. After the operation band ages must be norm indefinitely. Occasional rest in bed with elevation and careful ban laging of the limb will be of great benefit if extensive a lema develops subsequently

In spercett of th auth r cases th prelm ary serol rical test were I und Iron rect. In the trit the good carr of the hare transferd will ut injury in ma i moreit mup 3 tha patent of (mup I The sen melecus examinat n fithe 1 bot ale I well griut nath a between the seen sellie recit ert and the I had of the br rand sic sees When the tran lu win wa repeated to om ett lit t ther we apply t reacts a last there expensely

in fir i if a h) was re e the life ra wr i the stepru liter learn tower senkeel to to between the hours serum and the recent entry types (see her learned and tin t n ant in th 1 Lascal test with 60 e cm a I nite lamily occurr! In the other c s the naturals and hours lebered to from 1 t the senter lite at a first gratuation and b male ! between the serum of the freet and and the erethe at fit it and in trelm nat t benel teste m the thomal occurre touth 15 cen and in a sec I to t with anth o me in te treat the of certed litte cen In this cases at it set by all the table if est to it with here byt between the seru

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LYMPH VISSELS AND CLANDS

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ent an lauteron He en ane legar the II ig in a wave in eth e th superf lil er the d p glamb f the arter r or post r revokal reg : In he Hat hir the we ft is invarable unlat all a l ger r la er pathy bear it seue at le tu ilite late stages. It glands be me larged t tremas intelearly meterine range like beend neta taxes a e eat em ly une mm n. The course

ther it all stril trackly Lim hou one I the certifal I m h room threly are lates primary e ditlet mx. I the e ther I ges a clinkal I recentiation is often in now if the 11 is the 12 select proced to fir the 1 Terent's 1 sag was an hard the co he nea n nas in le when er the presente of eth of these e rit 1 so with little mur some reel entitl in a primptr al likk I work n I she cer w I giand at file

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nous hamangiamita. No tof the en es ere treate i with radium but in a fe the roente n rat were u el The author r commen is the expectant treat ment of bor sell the main pri ciple of i hich is the u e of relatively weak dose at con i leral le inter vals each to e being as a rule 20 per cent less than the erythema do e The hamangiomata are carefully watched bet cen the treatments and the do e is not repeated until improvement i n ted In many cases only one such treatment is require I to initiate a process of healing wh h re embles pontaneous healing Thi meth I gi es a better co meti re ult than an other In treatment with the roentien rays the lese i u ually the skin erythema to e with a filter of a mm of aluminum

The result of the r hole cal treatment of hemangoms capillare has been c metic re tors ton only a children unle 1 year of age and only in cas tin which the size if the hemanage on a hid not exceed to b 3, mm. In m re extens to humango mana apillars the technique complised at Kadi um bentinet has net let 1 co metically sail factory ment early no fee able lumne the first year. If if a method is the control of the control of

In all f the fiteen a es of hamangioma tel late o metic restoration was hanned foll wing thetmopuncture of tl centr leapillanes

One hu fred and enthteen cases of lamanmoma cavernosum uperfic le ha e been treate l'accord ing t For ell expectant metho! In about 70 per cent met c re torati n was obtaine! and in about 30 per t th treatment res Ite lin improve ment In 4 pe e t nly ne application was ne es a In 'tteen ca e ra lium irradiation was gi en n lo e whi h produc d an inflammatory reactic of the ec nd degree. In 30 per cent of these met re toration was obtaine i but in 70 per e t atr plu hange texeloped Of four cases in the heher d m ! e produced ant flammators rea to n of the the I d gre atrophy leveloped in two Hamag mata of the cala h we been success full treated by Foscil methol with ut causing permanent tilat on

Taumat ul ati n of humangiomata have al o re ei ed mm li te t catment without com

plications. The result of the treatment is not influence i b the age of the child. As the hæman is ma cavernosum frequently takes on a rapid growth luring the first year of life it should be treated during that time. The vace of the heman groma does not affect the therapeutic result to any marke liferers.

Of the fifty nine cases of hemangioma caverno sum production for the were treated according, to Fer ell's method. In themst right of these cosmetiers to toration was obtained and in secentiem there was improvement. No attrophic changes feed oped. Himmation of primars bets are lations to means of a jot imm etter late! Illier has proved of great importune ean the attainment of a sast free tory cometic result. Treatment with the roentgen rays in a mail number of caves resulted in improvement but not in cometic restoration.

Lieven cases of subcutaneous an ica crinou i jim phangiomata vere treste i in two cases in v huch the treatment was given with a z or z mm extra lead filter and an inflammatory reaction of the second legree was produced to metic re toration as all tames in the deserge when the treatment in the cases in which the treatment.

as of tame! In the cases in which the treatment was given with a 0 g mm extra lea! fifter or four sheet of paper cotton wood and steroff in 1 minflammitory reviction of the fir t legre was produce! there was no olvi us effect. More intensive tract hat one, fittere! through y or more millimeters of lead can be obtaine! in the radium ho iter. I willicential leps effect an probably be obtaine! with it's apparatus with consequent disrippearance of the kimphringoma and i without he in k of the kimphringoma and i without he in k of

secon lary atrof hy of the skin

The only forms of epidermal news treated at Radiumlinemiet were the navy pigments of and navy pigments of and navy pigments of the former and little five of the little were treated with rad und In the cases in which the navis was successfully to the product of the navigation of the second to the product of an inflammation of the received to the product of the product of the risk of see harv strophy. Where defers the product of the produc

PHYSICOCHI MICAI MITHODS IN SURGERY

ROETIGETOLOGY

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sigmoid and excum are very favorable because the inter ening or filtering lymphatics can be easily removed

The tyo stage operation has materially reduced the mortality in these cases. I ractically all operative leath are caused by shock due to hamorrhage sep sis or both following the second operation since in this procedure large connective tissue spaces and the perstancal cavity are opened. The author therefore levised a two stage operation in which most of the work vas lone at the first operation. By such an operation it was possible to remove not only the mesosigmoid but al o all of the gland bearing con nective tissue in the hollow of the sacrum The older operation did not reach all of the upper lymphatics in the mespsigmoid By ligation of the superior hamorrhoidal artery where it crossed the promon tory of the sacrum all danger of hamorrhage was at once removed

Con alescence following the first operation was usually quite stormy because the connective tissue in the hollor of the sacrum which had been de ital ize I by lization of the vessels usually sloughed and an abscess leveloped an I perforated into the rec tum It was therefore nece sary to wait until this had occurred and a plan for drainage appeared necessary In the cases of women drainage was relativ ly easy as a posterior colpotomy permitted the dra ing of a large drain through the vagina In male patients it was necessary to leave an intra peritoneal drain This proce lure the arted one of the main objects of the primary techniq e It was soon foun I however that a drain placed in contact with the inverted rectum and drawn out through the ler end of the wound could be enclosed in a peritoneal canal made by bri ging the pelvic peri toneum together over the drain

Early cancer of the rectum is among the most hopeful of all cancers as its location makes possible more thorough removal of the lymphatics than in any other part of the body

Cancer is inoperable when definite metastases can be detected and the growth is so situated that its

complete removal is impossible

Complete removals is impossible. It is generally conceived the motivals confined the tervix in which the growth as entirely confined the tervix in which the growth as entirely confined suggested condition. For one unknown reason radium irradiation in these early cases have been dispointing. Radium appears to give better results in later cases. It has been suggested that when a cancer has been present for some time and secondary infection has occurred a resultance against the can eer is developed which favors the action of radium Cancer of the cervix is sail to be the ideal field for the use of radium.

For cancer of the tong re endothermy is the method of choice. In malignancy of the skin radium needles and the cautery kinde have their place. The results are less an index of the relative value of the agent used than of the ability of the surgeon employing it.

ANTHONY F. S. W. M. D.

Martland II S Sochocky S A von and Hoffman II Stable Colloidal Lead in the Treatment of G neer J 4m M 1ss 927 lt xx1 9

The authors have shown that stable colloidal leaf as no selective influence upon cancer cell has no selective influence upon cancer cell has stored in the liver spien and marrow. If it re enters the circulation from the storage depots in the body plambism occurs. Thrombous followed by general necross may result but such theraps, is dan erous and should not be u ed empirically by the me lical profession in general Park Syrar M D.

MISCELLANIOUS

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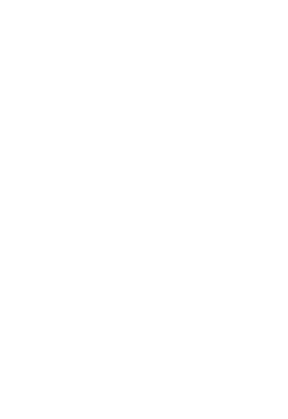
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SCHOOLDER J P a d CARRY J B Th ware of

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INTERNATIONAL ABSTRACT OF SURGERY

SEPTEMBER 1927

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Vance B M Fractures of the Skull Complications and Causes of Death A Review of 512 Necropsies and of Sixty One Ca es Studied Clinically 1 ch S g 10 7 x v 23

The skull must be regarded as an oblong box composed of a vault and base. The vault is a strong curved dome of bone of even thickness with the exception of two fragile plates in each temporal region. The base is an irregularly flattened structure composed of heavy mases of hone weakened by thin plates numerous foramina and bony The strong and weak points in the base have a systematic arrangement in which the body of the sphenoid is the common center or hub con nect ng the strong masses of bone by long ridges which form a radiating figure with six spokes The alternating areas of strength and fragility have an important influence on the course of fracture lines in the skull

In most instances fractures run from the vault down into the ba e In the base the fracture lines gen rally follo the bed of the i sæ between the strong mas es of bone that i rm its boundar es and for the most part are directed toward the central point of the skull Fra tures tend to run also in the direction I the line of violence

Five hundred and twel e cases of skull fracture which came to autopsy te e reviewed by lance to study the diffe ent condition that cause death following such injuries In 39 cases death was due to cerebral concussion and occurred as a rule in the first hour f llowing the trauma Death from exhaustion re ulted in fourteen cases the patient did not the immediately but was unable to rally after the primary stock. In twenty seven cases death was due to a terminal lobular pneumon a One hu dred and thirty two patient succumbed to cerebral c mpres on caused by subdural barnor hage and twenty fou to extensive lacerations of the brain The majority of subdural hamorrhages

were the result of contre coup or direct lacerations of the cerebral cottex The fatal lacerations of the brain were either surface lesions which covered a wide area of the cerebral cortex or cavities in the brain substance which contained large quantities of blood

Sixty-one of the patients died of cerebral com pression caused by epidural hamorrhage. Most of the hamorrhag s nere the result of laceration of the middle meningeal artery by the fractured bone In the cases of cerebral compression the interval between the injury and death varied considerably. Acute suppurative leptomeningitis was responsible for forty one deaths

The infective agent gained entrance through compound fractures and fractures involving a bony sinus

The presence of a fracture of the skull was determined from the hi tory of the trauma the general ondition the external signs of the innury of the head and the findings of examination of the spinal fluid and roentgen ray examination of the

The pulse and blood p essure readings while im portant mu t be interpreted with caution So many factors influ no th circulatory system that neither the pulse nor the blood pressure reacts to intra cra al conditions with any degree of consistency In a typical case of cerebral compression the pulse became slow dropping from a rate of from 70 to 90 a minute to a rate of from 40 to 60 a minute. The blood pressure readings also varied A blood pres sure of 180 systolic and 80 diastolic or one of 210 systolic and go diastolic indicated definitely a seve e grade of intracranial pressure

Intracranial tension is indicated also when the

spinal fluid is I lood stained and flows out under Ophthalmoscopic examination of the eyegrou ds

revealed circulatory disturbances in that region and thereby gave valuable information concerning intra cranial p ess re In cases of moderate seventy the

EDITOR'S COMMENT

A NUMBER of interesting and helpful abstracts in thin months issue of the deserve particular attention. Siller's conservative das to the treatment of purperal interesting 200 emphasize the radical nature of many of the method that have been suggested in recent years for this condition. In Miller's opinion, the employment of operature procedures such as hysterectom, haparotomy for drainage of a spreading infection and ligation of the pelvic veins is rarely indicated and chemotherapy can best be utilized in the form of repeated transfusions of whole blood combined with equal amounts of Ringer's solution.

Holiuan and Eduards (p. 288) interesting experimental studies on ligation of the companion vern when ligation of the main artery to a limb becomes necessary not only confirm the climical observation of Makins and other military surg ons but emphasize the fact that the uncidence of gangeries may be lessened if when arterial ligation becomes necessary the companion via us ligated provinal to the entrance of the views accompanying the arteries which furnish

main collateral circulation

Talcovatz report (p 234) of the results of peri pheral nerve suture in ninety six cases from von Exelberg's clinic presents a rather gloomy con tra t with the results of nerve suture as seen in other clinics for example in that of Delagemere (Surg Genec & Ob t 1)24 YEAR 543 Int Abst Surg 1925 al 287) or with the remote results of operation for peripheral nerve injuries as reported to the International Association of Surgery by Platt and Briston (Brit J Surg 1024 to 535 Int Ab t Surg 1924 XXXVIII 511) Takowitz statements that the motor f bers re cover more en ily and rapidly and that the prognosis of operation performed after the ninth month is absolutely unfavorable are in direct variance with the ideas expressed by the majority of norkers in this held

Spurling and Whitaker's experimental study of the end results of cholecystostomy as shown by the cholecystostom (p 254) is an interesting contribution to the literature both of guil hailer surgers, and of gall haider wandarion. Her treat for the necessity of providend and treat to to for the necessity of providend and treat to the desired of the necessity of the necessity of change for a damaged literature of the necessity of classon that dramapse of a descared gall his first with the expectation that it will regam us sormal function is not only futtle but endanges the patients health would furnish a ready asset to what is frequently a deputing question.

Ballour and Henderson s interestin report of fifty-eight cases of beings tumor of the stand-(p. 43) suggests the importance of con alway the possibility of such growths in the differential diagno is of cases of uncomplicated animal side of making careful fluoroscopic examinations of the tomach to rule out their per ears. I move than op per cent of the cases reported which have been submitted to N ray examination the lesson was demonstrated and in nearly one half the condition was diagnosed as a being humor

MacCarty's paper on the relution of driven under and caracimona of the stonach (b 4) emphasizes the fact which he has stre h be penticilly in other pupers that gastrue (see and gastrue carenoma are frequently associated he that their chinical differentiations is not aliestic possible. As NicCarty pointedly, remains unit is po soble experimentally to reduct of we gastric unders and gastrue tarest caused affirm that cancer does not does not developed the site of an ulcer and this question i after all of scientific rather than practical indirects.

McCarrison s account (p 227) of the treemental production of gotte by the adruma-ration of a diet character, ed patticularly by a lack of Vitatime B Masson and Smons report of a case of multiple perforated gastine ul est [p 23] H y & Millian and Memperit's helpful decoraon the pathogene is of jaundice [p 23] or the reand Cantaro's clinical steely on the re-office through the control of the re-office of 200 and France conference rever of particular through the control of particular feet of the many important papers al-tracted in this mouth is such as the control of particular of the this mouth is such as the control of the found to be e p cially valuable in the following conditions

r Demonstrable intra-o ular damage with no foreign body found in or about the eye

2 Old injuries without a recognizable wound of entry
3 Extensive intra-ocular disturbances in which the ophthalmoscopic examination is of very little.

value
4 Cases of non magnetic foreign bedies such as copper or rock in which it is very essential to knon whether there are intra-ocular particles as the

indications for enucleation or con ervative treat ment may depend on this information 5. Cases of multiple foreign bodies blo in into or about the eve. The freatment usually depends upon thether intra-ocular particles are present in one or

both eyes

6 Injuries in which the determination of the exact size 1 cat on and shape of the foreign to her furnishes the neces a windcation for the route of extraction of magnetic foreign bodies or suggests the possibility of extraction of magnetic bodies by forcers

7 Case in which the foreign bodies change position either unas sted or after the application of

a wakue

8 Cases in which there is doubt as to the nature of the foreign boil which has entered the eye of Case with multiple foreign bodies of a mag

netic nature
to Cas of ext ao dinarily large to eign hodies
in which inform too relative to the size and shape
may indicate the be t route for extraction

One o two illustrative cases of each group are tiel and 46 f the oc cases estimated for fore gn b drea are tabulated 1 e ieu of their work has det du authors to e nedude that exact localization. I fore gn bo let is at to only desir ble but so necessar 1 the intelligent management of mor i injuries so mitted na 1, fore gn body tajury to the eye.

om tied na 1, fore gn body tajury to the eye.

W od D J A Ca e f Sympathetic Ophthalmiti B / J Opi/k 9 7

Wood reports the ase of a quest old gil who contrated bilate all gonorrhoral conjunctivit. The tight eye devel pella contral ule which went on ery apidly t perforation. Two verks elapsel before the eve wa quite enough for per time no L. A corjunct. I flap was then fashioned to cover the for time.

pe for tion

A out two cels fater while the left eve appeared
no mal on relinary c amination the shit lamp re
vealed many fine p cipitales on the correa cell in
the aqueou a d a dewy endothelium. There

vealed many fine p cipitates on the correa cell in the aqueou a d a deev endothelium. The yew was thin e ucle ted With the pat ent still under enasther: so come of blood were removed fo an autogen u serum and a do e of salvatana was given. The u e of air p ne and of onin was fegun at once and connucle it throughout the treatment. The serum

was given in 3-2 cm doses for six injections but was then discontinued as it became slightly septic Salvarsan was given weekly and sodium salicylate administered in large doses

Under this treatment the haziness of the vitreous cleared and the precipitates became smaller so that after about three and a half months the vision was

The most important factors in this case were the early diagnosis with the shi tamp and the immediate removal of the exciting eye. On examination of the excised eye evert part was found altered but the changes were most marked in the anterior portion Grozes R McLutry MD.

Mayer L L Visual Results with Telescopic Spectacles 1m J Ophih 19 7 3 8 256

Mayer tested telescopic spectacles in a series of sixty five cases for one or more of the following

indications
r To improve the vision in cases of poor vision with old nat; lenses especially inability to read

fine print
2 To tide the patient over until some operative
measure a guld he possible

measure 1 ould be possible

3 To improve the vision of elderly or unhealthy
persons when an operative procedure would be

associated with ron iderable risk
4 To demonstrate to the patient that poor

He briefly reports ten cases illustrating the fol

the priest reports ten cases mustrating the following conditions cataract retinal lesions optice atrophs myopia and choroidal atrophy scars of the corner physical anomalies and glaucoma

I attents are caper to try, the telescopus spea facles but often complian on wearing them. The pattent sees best with the distals in terms of his ordinary refraction. Persectating of the pattent usually gives perfect results. The rea is gattachen it must not focus the print closer than 8 in 1 ractice and persistence als ass result in greater vision and fixed the pattent of the persecution of the season of the consideration the author writes a prescription after the final timal. In other cases the lenses are

loaned temporarily for trial

Lestre L McCos M D

Jackson E Advantages of Plano Trial Lenses A J Ophih 19 7 38 66 The author summarizes the advantages of plano

trial lenses as follows

I With plano trial lenses it is possible to obtain results closely approximating the best results obtains be with lens surfaces experially calling.

obtainable with lens surfaces especially calculated to reduce aberrations to the minimum
2 It is easy by means of them to determine the vettex refraction

3 It is easy to measure the exact distance of the

4 It is ex v to keep down close to the mini mum spheric aberration and distortion of pencils by obliquity vessels of the disk were engorged the lik appeared hars or definite papiliculems was found. In several instances the ophthalmosoppe examination showed that the eyegrounds were affected more on one wide than on the other. As a rule the cause of the increased pressure was located on the side of the increased pressure was located on the side of the

more involved eyeground
Neurological examination includes a routine
determination of the following points: (1) the
condition of the following points: (2) the condition of the pupils and the oculomotor system
(2) the con blion of the facial and tongue muscles
(3) superficial tricless of the truth. (4) deep re
(3) superficial tricless of the truth. (4) deep re
rections such as patiellar and neutronic final
rections such as patiellar and neutronic final
six and kerning signs stiff neck ett. (6) shootmal
cond tons of muscular groups such as weaknes ex
spaties and flexering (convertible special properties).

In the thirty four patients operated upon three indications for operation were 1 soveried (1) compound or depressed fractures of the skull (three patients of and seven recovered) (2) definite intracranual tension especially when the lesson causing the trouble could be definited locations that the control of the control

Mos is H L as WD

M Kenzie D Further Observations on Spreading Osteomy litis of the Skull J Lay 1 1 5 Ot 1 1917 xl 1 193

Specading of compellus of the skull is rare O teomelulus may follow any operation on a pup purating nasal sinus. While extensive operation a map purating nasal sinus. While extensive operation a monor interference is more likely to leave bethind it act e suppurating foci is contact with the non-distance procedures as the intransals antirum operation. And curetized procedures as the intransals antirum operation and curetized of an ethinoid for polys. If the reports represent the usual run of cases the disease is more frequent after small than after large intervent ons

The exerting cause of the tisease is still unknown A patient may safely in lergo several sinu operations without unfavorable sequelar and then for some und scoverable reason develop ostern elitis following an intervention that is quite trifling

The pontaneou form of ostromiel its is more freq ently sell limiting than the postoperative form In progress e ostromielitis appearing after an operation an interval of a week or two usually

operation an interval of a week or two usually elapses bet een the peration ni the onset of the fisease. In such cases the progress of the condition is slow.

When the discuss originates in the bones of the face the thin flat facial bones tend to become nectosed in man suitenth the progress of the condition free being in mark if contract to it creep go rhilting and leap in groups is the cramial vault. It appears also that it moute taken but the infect on a the bones of the it is toward the frontal bone and the vault of the skill Free some unknown reason the disease averable beyond the nose and ofter at least in its estages. If this were not the case it ould be a begin and end with septic meningits.

Drainage alone is insufficient to arrest the distree suggests must treat it as a mall gr at mr 1 s i erect his defenses an I cut his batters well a sriits apparent limits. This requires the make get long into ions in the face and i probasis at the removal of home sometimes of erect r r 1 s area which is a difficult neces it as a features may then

be obliterated and con propost scars mushed in When osteomed to begins in either either 11 seems to reach the nasal bones quith the agent being the appearance of a pales of rigidity soft parts at the inner sile of the orbit and overtheing of the nose. At the same time is not to the inter of of the note will she there or of the note will she there or of the note will she to them one of the content of the note will she to them one of the note will she to the note will be not the note will she to the note will she to the note will be not the note will she to the note will be not the note will be not the note will be not the note of the n

ethmoid region to be reland greath sa en.

When the disease has its origin in the a true is
starting point weems to be most comm by the

orbital floor and the inferior margin of the on-When the con litton begins in the front has a breath as elling first appears or eithe affects for sinus but occasionally the eathert (work a side trouble is the rie of a doughy swelling hear near the frontal eminence.

I formising res its have f flowef the intra e or use of colloit silver. In three of the auth of cases in which this treatment wa trid it me in unmittakable improvement in the silvent

M Kenzie reviews in de a i b surg calp w 'r
in the spreading forms of esteomyel is foll of
arious si u operatur if states that a -b
cases the only method of effecting a ct. e i ra i i
operation j scj Mt. 3.1

EYE

Mills II P and Watkin W W Localization of Foreign Bodies in or about the Eye Est oft 0.7 416

Since the perfection fix lust in tethophalimol gasts he clear part of all appeal of a part of desired at antage in the treater fixed at antage in the treater of fixed belong aguines of the e. The all it to desire definitely the location in a foreign body in the shape and within frent is a stury perfect proper treatment of a long limit of a long limit of the proper treatment of a long limit of a long limit of the location of the long limit of the long limits and limits of the long limits of the limits of the long limits of the long limits of the long limits of the long limits of the limits of the long limits of the limits of

Brief mention i m 1 of the h torvael et ment of local zat on techn q ar ment of the true relate gt t omman e Fr is la 1 upon the necess t for ser. Jones two in the the qu' and mon may be related to the control of the late the late of the late of

In 500 c usec ti ses exam 15 th 1 ten for u pected f reign bodies roen growths u

accurate as and even more delicate than the Wassermann reaction. The reaction is negative in deep keratiti other than interstitial and in eases in which it is positive it tends to become negative under antisyphilis treatment

THOMAS D LLEN VID

Bedell & 3 The \a denson Camera im J

Be sell believes that the Nor lenson camera sat i fies the demand of the ophthalmologist for an netrument to be used in the office as it is comp that and the illumination; as it controlled. The active c nations three layers explaining the in trument and two illustrations of fundus conditions revealed by it where I was the Market of the Control of the Control

Market N & Control

Cohen M and Meeker L 11 A Case of Multi locular Cyst of the Optic Nerre Meninges 4 ch Oblik a 7 1 2 212

He authors believe that in the cate reported in this article they identified the arichnoid mirro scopicall at their photographs and histopatch decorptions o closely resembly presonate they are thought they have been also as the property of the control of the property of the

Sca lett II W D uses Apa t from the Nervehea I

Scarlett reports a case of dru es (hadine bothe) in a jy ar-old boy with notifial vising. It is in u ust to find druses in clumps for in contact with the dil a in the cas. The cluster was situat 1 between the dil and macula and estended into the viticous to the extent of about 1 diopter. Dru s arise for the lamina titres and are harm less.

The author of a number of type al care to the author of the till core to the

Reese A B Abscesses of the Optil Nerve 1 &

The auth r freents the hist researed process of the pitch nearest between the true and the embolition of the pitch nearest between the pitch nearest between the pitch nearest between the pitch nearest through the pitch nearest pitch nearest

THE MELL STATE OF THE STATE OF

EAR

Fowler E P The N wer Tests for Hearing with Demonstration of Methods Lary gote per 1927 12XVI 8

The author thinks there is some confu up regarding the execution and interpretation of the niterate for hearing die larget, the continues technical terms. Hearing and larget, that the older tests the confusion of the next some of the next so offer reforments requiring progressive research. The new charts and audiometers are discussed in some defaul | use Q. Its sures, V. D.

NOSE AND SINUSES

Morse J L Acute Infect one of the Nasopharynx and Its Adnexa in Infancy and haily Child I cod M d Cl V A 19 1143

twite infections of the na-opharyer and its dancta occur often in childrond and are trequently the cause of reath. The treat-reat is primarily presentive consisting in the removal of adenoid regulation of the patient's habits to diminish the uniforability of the mutous membrane of the mess and in pharynix the presention of exposite to consigious insolition of the patient, and his confinement to held for this or three days, and simply the consigious positions of the patient and his confinement to held for this or three days, and simply these measures are taken, bales and chaffers will seldom this e a use na-ophary ngitts and therefore ill eldom develop confinements.

The complications are ethnoidits inflammations of the frontal and macillary sinuses (rare) of the media ifrequenty mastoditis following outsis media thrombosis of the lateral sinus following mastoditis and mean ent. Prop. r treatment of these complications will reduce they severity.

MANFORD R WALTE M D

B rahill J F The fielation of Infected Masal Sinu es to Optic and O bital Disease J Jod " St I M 1 q 2 k, 4

We t disease of the eye accondary to sume due se are of an inflammatory, nature and caused be the transference of infection from the same the orbit. This takes place through (1) a perforation of the intervening issue such as re ults from refereivon necrous and the final focal-down of the city a dehis ence in the intervening overcomes. All (1) venous channels of (4) the lymphatica.

The most frequent route is probably by way of the veins In cases of sinus disease accompanied by blindne's operation will often clear up the blindness Maxozo R Watz M D

HIDOM

Noolsey J H Congenital Clefe Lip and Talate

In the Liu ed States congenital cleft by and palate occur once in every 110 births. The author

5 It is easy to m asure ly neutral zation the strength of lenses of different forms

6 Hano lenses should be universally employed as trial lenses Lestic L McCry MD

Lea J A The Treatment of Trachoma by Acetic Acid E ii J Ophih 192 n 150

In the treatment of trachoma Lea washes the eve and evelds with a saturated solution of boracic acid and thea drops in a 0 5 per cent solution of boracic acid and thea drops in a 0 5 per cent solution of cocaine (Dairier solution in which contains a lireal in also). Next he takes an in trument mirle for him by weets (an ordinary tationing neel le will do) ip a into a maximure of equal parts of acidic acid and water takes care to fill the groots and innertin the cycli pricks every true granulation and any any loss of inneres of conjunction and then was voils or fringers of conjunction and then and applies a with a solution of bloatic acid is an and applies a with a solution of bloatic acid is an and applies a with a solution may be called for an hour or so.

This is reperted two or three times a week. When the true granulations ha e di appeare I he applies alternated to the hypertrephied papille sulphase of copper and a 2 per cent solution of nitrate of sulver. Lester L. UcCo. M. D.

Lige twood L. M. A Ca e of Emphysema of the Conjunctiva B 1 J Ophib 19 231

The author reports the ca cof a northman who in bloaming the dust from his follows with an after bus under a pre sure of o pounds receil the fall force of the art in the face and e es. On extending ton, the conjunctive was found trained in everal large and small bulles similar in appear an e to a chemo is. Otherwise the eve was negative. Within five or six days no trace of the injury was appeared and the patient was allowed to return twork.

Geor to R. We's the state of the confidence of the c

Shallow T A Pulsating Exophthalmos

shallon reports a ca e of bilateral exophthalmos following an injury of the heal su tained? No ember 1924 Six weeks litter the left eve turned up ward and became prominent. Subsequently there as protrision of the right eve Vision a the left eve was impaired but in Equit 19 the protect of th

Among the unusual features of this case was the fact that although the injury occurred in N vemberous the brush was not noticed until Ma 10.5. There was a blateral exophibations presum of to have been aused by a fittill on the me and I end the intern I carotid arters. The let on which believe to be between the rights I ternal carotid it cer and

the cavernous sous In Januar 10 de e e common carott aus herate The 1-th cessed and the eves reckel Ar that here bout recursed When the patient we apar eight mands later the life e e was a mult the right was proposed a continue of rate of the right was admitted by the right was admitted by the right was admitted to the right eves all fronts as a set of the right even and the right even was admitted to the right even and because the course the right was admitted by compress in the belt even carotted legation of the left course accorded legation of the left course accorded the right even the left course accorded the right even the left course accorded the right even the left course accorded to the right even the left course accorded to the right even the right ev

Year examination fol ingitle layer of bismuth after death sho eld much in ted common carolid and the ancur of h i on the right and in the right commo carolid and the trey. The right half of the brain as patience throughout the course of the night re il ex. i and is historiches.

The nuth r concludes that the tree me as careful on the lesses is ligat on of the me careful on the lesses is ligat on the test is ective fails the failure is due to receive fail the cutre into the aneutism. I saw in lad by the cutre into the aneutism. I saw in lad by the cutre for the copposite and an further so the limited to highton of the uper result ingest on of the opposite common of the not justical.

A to this common of the contract of the not justical.

Mesirow M. E. Central Cloroldith Due to Torternia of Pregnancy 1st J Oph 1 12 2, 3 33

The author tep ris an unual eachitima in the third month of pregnanc with uthird pressure a sibuminatis that with a firsh each in the right macula which increased greatening from the macula theak that they are the pregnance the right gradue returned.

The left trees which had been tour clearly but with the credit we rate months in the below he are central and pracential more but a conswert for The such reporter Zeitreite the being unter in these cases.

to White is Al

th Diagnosis f Interstitial Aeraths, A &

the problem to how a kin mat say his in mat it as the could near at it a when has not retailed a large numbers of a ten for may acres. In the green pertoused has a superfection of the su

lle to 1 les that ready leting are to 1 per 1 r nter till I keratig w 11 a

The theory that when theumatic heart disease appears after tonsillectomy the tonsillectomy failed to prevent it is erroneous. Rheumatic heart disease may not mandest useful until three or four years after an attack of tonsillation or rheumatic fever with cover the mere fact that tonsillectomy was eventually performed indicated the necess ty for and the delay of the performed to the consillation of the control of the order of the other hand then a late tonsillectom will often prevent subsequent attacks and damage to the heart.

The prompt subsidence of fever and joint symptoms follo ing tonsillectoms in cases of acute rheumatic fever has led to the more frequent per formance of the operation as soon as sufficient study has proved the tonsil to be the port of entry of the infection. As operation during the height of the felvile attrick has not procuring the height of the felvile attrick has not procuring the north ordering them to the post of the port of the procuring the height of the felvile attrick has not procuring the northern ordering the procuring the procurin

Bloodgood J C O al Lesions Due to Vincent s Angina What Every Physician and Dentist Sh uid Know About Its Recognition and

Teatment J im M 1 977 is 1 4

Bloodkood is of the opinion that the occurrence of Vincent angina 1 increasing and that the increase is due to as occated ith poor living

condit ons

In the teatment he has had excellent results from the use of ohum perborate. A thick, paste of the hem cally pu e salt is made ith ater and as pe 1 ove all of the teeth with the finges. Any red or ukerased ar as not a ound the teeth are treated a the same a. The pattern bold thus paste i. his mouth f rabout five minute. During this time it for our lation. The

mouth, then mo 1 th warm wate.

In the with 's p nion it a mistake to allow patient to do this th m 1 es u til they are thor oughth true ! ni b the time they are trained the le u usils cure! If the teatment is gent to leagund the tauses it att in When the on hit in n ole the entre oral cavit extending to the fuer and play are the patient should gargle with a thim er solut of the perborate two or three times a 1. The more extens we the Ison and the m ulc rate! the acs the longer the time eq ref a cure ju 6 Eav ext. MD

NECK

McC trison R The E perimental Production of a New Type of Goiter Un elated in its O gin to lodine L 1 9 1 9 6

McGa rison b s h there produced three type of g iter namm 1—the h perfrond rispe the hyper plasts i pe and the cold life type. The hyper to phase to general the cold life type the hyper to phase to general the cold life type the hyperenic on his on of his in of he poor localities and namm 1 eceving, massive doses of facal etc. in the food. The hyperplastic type are is

in animals receiving an excess of fats or fatty acids in an otherwise well balanced diet. The colloid type arises in animal receiving an excessive amount of time in an otherwise well balanced diet.

These types of gotter with the possible exception of those due to the ingestion of freeal bacteria may be prevented by increasin the intake of iodine in proportion to the unbygienic conditions of life or to the excess of fats or of lime in the food

This article deals with the experimental production of a new type of gonet which is unrelated to the odine ingested. Its bistological features are those of an inneres secretors, hypertrophy which ultimately leads to exhaustion of more or less of the entitled a and its replacement by non secretory elements and fibrous tissue. The picture approaches that seen in Graves disease during the secretory hypertrophy and my andema when the secretory proceedings are the secretory of the contraction of the contrac

It is prome to the form of the constraint of the

The experimental wo k here reported suggests the occurrence of this type of goiter in thilren and young yomen of the working classes whose food contain much carbohydrate poor in vitamine little suitable protein and les green vegetables and fruit The subjects of its progre sive stages are prone to develop Graves disease folloring such influences as fright mental worry pregnancy lactation and attacks of acute infectious diseases and the subjects of its retrogressive stages show greater or lesser degree of myxordema If the author's findings as to the etiology are correct the condition can be prevented or cured only by a vell balanced diet r ch in vitamines and vill not be influenced by todine MANUEL E LICHTENSTEIN M D

Starr P The Course of Hyperthyroldism Under Iodine Med cation (k / 1 Med 1927 xxxx

The typical course as represented by the basal metabolic rate in all types of hyperthyroidism y hen dail large does of lodine are given in any for monas its in a primary remi soon a more gradual recurrence and a post sodine reaction after discontinuance of the lodine treatment

Of thirty six unselected clinic case, representing various types of hyperthyroid sm eight (about one fourth) showed a reduction in the metabolic rate of less than 25 per cent and twenty-eight (about three rejects the term harehy and gives the following classification for the various types of cases

Group 1 Ire alveolar process cleft (bp cleft process normal) (a) unilateral right and left com plete and incomplete (b) median (rate) complete and incomplete (3) bilateral right and left com rilete and incomplete

Group 2 Postalveolar process cleft (palate c eft process normal) (a) soft palate extent in thirds

(b) hard palate extent in thirds

Group 3 Alveolar p ocess eleft (follows incisor sutures) (4) undateral process right and left complete and in ompl te palate unilateral bilateral mediat complete and incomplete lip unilateral bilateral median complete and incomplete (b) median (rar) complete and incomplete (c) bi lateral process right and lelt compl te ad incom plete palate right and left complete and incom plete hp right an I left complete and ir complete

It is thought that infants withstand urgical shock vell. Therefore the major portion of the treatment should be carne I out before the a e of z months D gital pressure should be made on the attendar processes during the first to o tecks of life a d then permanent cloure should be effected The soft printe should have been treated by the

eighteenth menth

Closure of the lip bist is advocated by Betri Bl ir Brown Thompson Ritchie Horsel ; Go der Dowd and Ne Closure of the palate first is in ored by Brophy Lane Sherman Fatt and Ten.

The premasilla should ne er be amputated union with the lateral proces is should be him

boay upon Speech training is a very importa t part of the ill p tient with any d feet should treatment has a competent instructor

BURETT B W 110

PHARYNX

M sher It P An \ Ray Study of the ements of the Tongue Epiglote v and Hyoid Bone in Swallowing Foll wed by a Discu sion of D fa culty in Swallowing Caused b R tr ph ton geal Diverticulum Postericuld Webs and Exast es of Cervical Vert brae L

tay stude of the movement of the torgu du ing swallo ing wh h were made ith the use of barrum milk sh n if that birst the tip i dep es e ! as I hen the to then the dorsum is h I wed o is carried to the roof f the mouth aga n t the teeth and held there is th top comes up the la e i depress d The base then depre ed more and the anter o half goes to the roof it this point the b se of the tongue is shot back and like a plunger hoots a the bolus lown tard The ba eth a mose upward and backwar I unt I the tongue is e ly lost teh dit e amus of the jaw rd malli stickes the poste or pharangeal wall

As the tongue moves up and ba knard the en glottis comes to Le agraret the tongue and its tin ! forced against the posterior pharynges! wa! with the tongue The epiglottis arts as a natershed divi ling the tream in two In cont nuous swall a ing the barrum not only runs do a on either s de but esseades over the epiglotis in a full s ream Both the fluoroscope and the roentgenorizm sh w that the epiglottis turns downward to cover the larvny Even when the epiglotti is deformed the mechanical closure of the lary nx is complete

The hyord bone follows the mo ement of the tor Le upward the width of one cervical vertebra Lee u e it i attached to its base. The great hore of the hand are fore d back against the po ter or pharynges! wall and remain stat p ary the the movement being in the bod of the bone The partial firstion of the hand results in a quick ret to of the epiciott's after the act of a all was

Retrophars nreal pouches in man are probabl due to (1) an embraol great tenden ; towa d'the formation of uch p whe ani () an assimutty of the mouth of the ecophagu act as a oft a four ! in asymmetry of the thy old c rt lag and brings undue pres ute upon an emityolo call and anatomically neak not of the resopher's
Bilateral webs of the esophagus are probably con

genital other web espec all if sin I and behind the cricoid cart lage or just below it are if e to d'sease of the resophageal muco a They are fuel mo t frequently on the right a de Tre ym tons are d fliculty in smallow ng or the occurrence of strangling when so also ring is attempte ! A larg examining tube and the \ ray are enough to the

d agnos s Treatment , mo t sati fact sy the webs 2 e

punched out or vulse!

L-rostoses of the tervical ert big may difficulty in a allowing The diagno is is m le by I ra examinat a Th te is no treatment If ph ag scopy unless he y c reful done is contis Sento R W ATZ IB ndicated

Robey H II and Free iman L M The Effects of Tox illect my on the to te Att ck a de

Rob s and Freedman are of the preson that (on plete enu leat os (th ton ils is the best pre ni e of rheumatic lever no trerefore (brimat heart A history of repeated so e throat 1 of no s importance than tons I which suggest dise se by their app ara 1 I n bec my 1 d cated by a h story of epeated u e th oat e en ah the ton sil appear nurmal. When the tons I are d eased they sh uli te removed even in the abs we of

hi tory of ore throat Tons il ctoma is a major operat on and should be re so med only tw persor duly qual he I by train og and espe ence in in amid to tor Rectom) les es the patient n a dangerous on ito a con ls gi are often as dange o a the entire t me!

Harris T J Is Radium a Cure for Cancer of the Larang? An Inquiry Based on a Study of the End Results A ch Ot 1 3 f 1 19 7 1 30

In 1021 in considering the use of radium in the treatment of carcinoma of the lary ny Harris raised two questions for consideration (1) whether the claim that radium cures carcinoma of the larvinx is borne out by statistics and (2) whether there is danger of serious after effects following its use At that time he was able to collect only eleven

cales in which a cure had been claimed. Five years

had elapsed in only three of these

Because of the ery small number of reported cures in the large number of cases treated with radium Harris was of the opinion that there was not suffi tent evi lence to warrant the substitution of radium when operation was indicated

Six years have elapsed since that time Harri

has now collected the reports of sixty ca es treated

with radium in which only two cures of five years The only encouraging duration were obtained report was made by MacKenty who obtained twenty three cures in thirty three cases treated by lary ngectomy from three to five years previously Harris therefore believes that radium will not cure carcinoma of the larvnx

The after-effects of treatment with radium have not been satisfactors. In some cases the condition has progressed more rapidly because of the stimu lating a tion of insufficient dosage whereas in others severe and extensive burns have resulted from the destructive action of excessive dosage In many cases patients receiving a dosage sufficient to destroy the growth develop an intense toxemia which is difficult to control. Harris therefore concludes that radium is harmful in the treatment of carcinoma of the larvnx

MANUEL E LIGHTENSTEIN M D

sımılar

fourths) a reduction of 50 per cent or more. In thirteen the rate was reduced to +20 per cent or

The same frequency and degree of remis ion occurred in a series of twenty cases of toxic goiter including adenomatous goiter with hyperthy roidism The author tabulates eight such remisons in adenomatous gotter The cases showing less than a s per cent todine remission have no distingui hing

clin cal or pathological feature R currence und r iodine treatment is illustrated Several examples of rost to line reaction including a thyrotoxic crisis of this nature are cited. The control of the crisis by enormous doses of Lugol's solution is illustrated The comment is made that since adenomatous goiter with hyperthyroid sm seems to react to iodine with the same frequency and degree of remission as exophthalmic poster the pathogenesis of the two conditions is probably

In coucly son the author state that as the uniform course of hyperthyroidism under tod ne medication with the dosage indicated is eventually characterized by recurrence and a post iod ne reaction the prolonged treatment of this disease in the way is without final benefit

Blalock, A and Harr on T R The Fflects of Thyro dectomy and Thero d Feed ng on the Cardine Output Study No 4 on the Regultion of Circuition & g Gy c - Ob 1 927

In experiments on dogs the cardiac output was found to be in reased by the feeding of thyroid and decrea ed by thyroidectomy The change in cardiac output vas usually somewhat greater than the change in the metabolic rate The adm nistra tion of todine to animals receiving that id sub stance was followed by a marked deer age in the cardiac output as vell as in the metabolic rate This de ease was ob erved for i om ix to ten days the cardia output and metabolic rate then in creasing Afte the cessat on of thy old feeding both the metabolic rate and the ca diac output remained ele ated fo in months or longer former returned to normal befo e the latter

Digital: 1 c ea ed the output of the heart of dogs with hyperthi oidism but this effect was somewhat less than the effect on the cardiac output of normal dogs. The authors suggest that the oxy gen and ca bon dioxide pressu es may be important facto s in regulating the cardia output. They on clude that digitalis h uld be given to patr nts ith hyperthyroidism hether cardiac insuffic ency is LEO M ZIMMERS present or not

Imp ratori C J Laryngeal Varices 11 d J & 38

Imperators reports fourteen cases of laryngeal varices h cb were removed by su pens on or d rect la) ng scopy These tumors are ident cal in his tological structure 1th hamorrho ds They occur

usually on the lover surface of the cord and rarely on both cords They range in size p to 8 mm in diameter Their color depends entir ly on the blood vessel they conta a and ranges from white to dark blue In the literature these tumor are variously termed fil roma angtofibroma angiomatous polyp varix and angioma principal symptom is usually hoarseness and rarely cough or expectorate n

In the etiology voice trauma is evidently the most important factor \text{\text{ineoftwel epatients}} re heavy smokers Eight had chroni pharyngit and chronic tonsillitis. One patient who had no voke trauma was a norke in a dye establishment where he w s expo ed to irritating fumes. In the authors opinion the voice trauma induces I mph stasis in the mucosa and the varix develops as the result of consequent venous stasis local rest should be insisted upon for ten days following the operation and on discharge the patient should be admon shed FS Mo R. MD to use his to ce properly

Thomson Sir StC and Trail R R Tuberculosis of the Larynx and Artificial Pn umothorax L te t 927 ccx 903

The prognosis of pulmonary tube culosis is always rendered more grave by secondars invol ement of the larenz Local treatment for the laryngeal infection consists in resting the voice and the use of the galvanocautery Both of these method at applicable to only a small number of cases a d require many months to effect a c re

Reports of the effe t of artifice I pneumothorax on laryngeal tuberculoss are few because cases a th throat in olvement are rarely suitable f r this treatment In cases in which it has b a u ed its effect n s favo able The presen e of a laryngeal lesion has n t beer con idered a contra indication to pneumotho az

The authors report nine cases of combined lary a geal and palmonary tuberculosis treated by artifi id pneumothorax Complete healing resulted in six. Inv ivement of the larynx arising after the patient's admission to a sanatorium is considered to be of grave import as it indicates prog ssion of the d sease in sp te of the m st favorable co ditio s However in thee of the repo ted cured cases the t fection of the larynx d v loped under such th cumstances In one c se the le ion failed to re poed to pneumothorax alo e but q ickly healed when a few l al treatment were gi en in addition In two cases tuberculosis of the larynx developed afte the induction of artif ial pneumothorax but in both the addition was mild. In o e it re po ded quickly to rest f the to ce One patient succumbed t progre we tuberculo is with vol ement th laryng two months after artificial pneumotho ar

The laryny may be cured by collapsing a lunge ? hen the ba ills persist in the sputum and tuber losis 1 detectable the chest In uch cases honever its recurrence is po s ble

LEO M ZIMME MA ALD

the type In cases of medullo epithelioma the life expectancy is eight months while in those of spongioblastoma it is truche months in those of medulloblastoma seventeen months and in those of astrocytomata seventy two months

The spongomata are highly malignant grow rapidly and quickly cause death. Less than I per cent occur in childhood. The medulloblastomata are essentially tumors of childhood occur in the mid-cerebellum grow rapidly and tend to recur following their removal. As they arise from the coof of the fourth ventrale their removal I very

difficult

The astrocytomata have a much better prognosi They also arise usually from the roof of the fourth ventricle but are slow growing and more easily

Although unnecessary operat ons such as appen dectorm are still being performed for the rehef of symptoms due to brain tumors fewer advanced cases of brain tumor are seen by the neurological su geon todas than in former years. It is evident therefore that progress is being made in early diagnosis.

E ghteen cases repre enting the following condi-

tions are discussed in detail

Case Ercapsulated tumor of ob cure type we ghing 273 5 gm. The patient was a girl 4 year old. The tumor was successfull removed.

Case 2 Adhesive meningitis with cerebellar symptoms and hydrocephal s An acute flare up proved fatal The patient was a girl of a years

C se 3 A large median cerebellar medulloblas toma. The patient was a girl of 9 years. The tumor was successfully 1 moved.

Case 4 Suprasellar ranioph ryngeal pouch cyst The patient was a woman 30 years of age Death follo ed a transf ontal operation for drainage of the cyst

Case 5 Mid cerebellar fibrillary astrocytoma. The patient was a boy of 13 ears. Remo al of the tum r was f llo ed by mprovement but there was residual c anal nerse involvement.

Case 6 Mid cerebella medulloblastoma The pat ent was a boy of 8 years The tumor was

removed successfull

C se 7 Inoperable mid-cerebellar tumor (peritheli ma) The patient was a gril of 8 years. The symptoms we e relieved by a palliative decompression

Case 8 Cerebellar tuberculoma on the left s de The patient was boy of 5 years A palhative de compress on elieved all symptoms

Case 9 A long intraspinal glooma extending from the foramen magnum to the level of the second thorace c vertebra. The patient we a gril of 8 year. Rem val of the tumor by suction was fol lowed by rehef of the symptoms which were those of a lession of the cervical co.

Case 10 Sp nal metasta es from a mal gnant mid-ce ebellar medulloblastoma removed a year p eviously The patient wa a boy of 12 years The

symptoms were temporarily relieved by deep X ray

therapy Case 11 Cerebellar tuberculoma The patient

was a boy of 14 years Decompression vithout removal of the tumor relieved all symptoms except blindness Case 12 Cystic fibrillary astrocytoma The

Case 12 Cystic fibrillary astrocytoma The patient is now a man of 20 years During the past tyenty years six operations have been performed

for the removal of the tumor and its recurrences
Case 13 Fibrillary cystic astrocytoma of the
crebellum The patient was a girl 9 years of age
After removal of the tumor all symptom except
blindness yer reflexed

Case 14 Cerebellar astrocytoma The patient was a girl of 3 years Removal of the tumor was followed by recovery except for near blindness

Case 15 Cystic mid-cerebellar tumor. The patient was a girl of 7 years. Three years after the removal of the tumor the patient was still in perfect physical condition.

Case 16 Mid-cerebellar ependy moma The patient was a boy Decompression vithout removal of the tumor resulted in complete relief of the symp

toms
Case 17 Pre adolescent hypop tuitarism caused
by a pituitary adenoma. The patient was a gri of
12 years. Removal of the tumor resulted in relief
of the symptoms.

Case 18 Astroblastoma The patient was a boy of 6 years Removal of the tumor was followed by practically complete recovery which still persisted three years later

In summarizing Luching emphasize (1) the pedomin nei in children of cerebellar tumors usually near the mudine (2) the frequent enlargement of the head with d appearance of the sign of intractanial pressure and resulting impairment of the eyes the because of late d agon is (3) the importance of vomitting as a sign of ban tumor in children and (4) the fact that in many cases of gli oma surgery gives extremely favorable results. He used to the eyes the course of the control of the con

Sachs E The Present Day Status of the Surgery of Bra n Tumo s S in M J 9 7 tr 71

Sachs compares the su gery of brain tumors of fifteen cars ago with that preformed today. Fifteen fifteen cars ago viath that preformed to the brain had a mortality of 50 per cent. it all some states for it to be found and still more unusual for it to be removed and the usual procedure and a decom pession which was not vell done as its underlying punciples were not well understand.

Three types of brain tumor—the endothelioma the glomatous cyst and the solid gloma—are dis cussed and illustrative case histones are reported It is in the treatment of solid glomata that there is the greatest need for progress These neoplasms

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Miller G C Cerebral Concussion 1rch S E 1927 3 1 80

The author di cusses cerebral concussion and contusion and reviews the literature The investiga tion here reported was begun to determine the physiological response of the brain to an injury which might cau e coincident concussion and com pre 101 but as it soon became obvious that our ideas regarding concussion must be more definite the study was ultimately directed toward estab lishing the essential path logical and physiological foundation of uncomplicated concussion

The attempt as made to determine the effects of (1) blows on the head (a) a single severe blov (b) repeated light taps (2) an electrical current on the medulla obl ngata (a) a weak induced current (b) a galvanic current of 120 volts (3) direct mechanical pressure on the medulia oblongita and

(4) cereb al anæmia

The technique of the experiments is described Miller concludes that concussion is immediate in onset and tend toward pontaneous recovery without sequelæ It must be sharply diffe entiated from gross lesions such as contusion and multiple petechial hæmor hages The most important sign is complete uncon clous ess with or without medul lary symptoms. Cerebral anamia is not a ca. ative factor. The condition appears to be due to direct mechanical action on the cells cau ing a distu bance of cell equilibrium and temporary loss of function The me fulla v effects are those of stimulation or paralysis of the r piratory vagus and vasomotor centers The resp ratory center is the first to be paralyze! As the paralysis is usually temporary artifi ial respiration may sa e life Death from concus ion 1 immed te and due to respiratory paralis s with consequent asphixi

rso MD GILBERT C A

The Ope ati e Treatment of Ep lep Schust J v Enceph lograms in Epil psy a da Fu ther Lontribution on the Eff et of Hyper entil tion (fur p to Thrap de lplp e phi gram bi Fplp e gichzitg e w tet B t g ur Wrkung d ilyp ti l d f P jeh d e vere k kh 9 96 le i

By repeated ca eful studies of enceph log ams o d fferent days and especially by tracing the p tures on transp ent paper and compart g the tracings with the llust ations of cra cereb al t pograph in textbooks Schu ter i as able to see the frontal conv lutt us the cent al gyrt the parieto occipital gyrus and the insula The entire subgrachmoid space could al o be recognized. The latter is some times more distinct than the furrow outlines which especially in atrophy of the convoluti as and cystic degeneration of the furrows are themsel es very distinct

In his encephalograms Schuster could often make out the maximum extent of the changes in the brain surface a finding which was of value in the graph c localization of the spasm centers. By seven case reports he shows how by means of these enceph alographic studies with hypersentilation the spasm centers in epilepti s were found so that a curatise operation was pos ible

Hyperventilatio i does not always cause m tor disturbances in some ca es it may produc psycho sensors attacks. The latter are usually cases of epilep 3 in which the clin cal pictu e is dominated by emotio al disturbances WREDE (Z)

Cushing II The Intracranial T m rs of Pre Adoles ence in J D & Chid o 7 to 55

In the past fifteen ears there were seen in the Peter Bent Brigham Hospital Bo t n 1 108 ta es of ve ified brain tumors of hich 54 occurred child en nder 5 years of age 600 cases ip bable but unverified brain tumors and about 600 cases of uspe tel b am tum r Of all types of brain tumor only about 60 per cent are apt to occur in chiltren The e are (1) the glion a a () congeni t I tumors and (3) taberculomata The ratio of cerel cilar tum r to cerebral le ions in children

2 t wherea in a fult it i 1 5 Cu hing th cusses the three large groups of tumors in chill en in inverse order of their numen cal imp rtan e

r Tuber ulomata Of the sixteen venfied tuber culomata 1 the series of cases cited only six oc carred nehildren This i mark icont a ttothe old stat tics hich give the r incidence as 50 pe cent They occur most fr quently in the cereb hum It is be a not to emove them The ultim te pronos \$ 1 more unfavorable than that of most true

neoplasm 2 Congen tal tumors The may rity of ongent tal tumor re suprasellar nd an e from a saller of Rathke pou h They ause a disturban e of pitu tary fu tion and are pre ent from b th lout 80 pe ce t of the cases rev ewed the wall of the cyst wer ale fi d The esults of treatment nere rot very favo abl so fa as cure is c e ret

3 Glomata Glomata constitute 75 per cent o tumors of the brain occurring in child en a 1 onl about 37 pr ent of the e oc uring in ad its They are n t all seriously maby ant as r com monly thought The life expects a depends upon

SPINAL CORD AND ITS COVERINGS

Armour D The Su gery of the Spinal Lord and
Its Membra es Lecture II La c 1 2027 cctu

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The author di cusses circumstended serous spinal meninguis, javes a brief review of the history of the condition and describes the anatomy of the spinal cord membranes and their reaction to injury Adhesions giving rise to casts may form following aquiries of the arachood whether the dura is in produced to the arachood whether the dura is in produced to the arachood may be described to the arachood may be produced to the arachood may be appeared to the arachood may be discovered to the arachood may be discovered

The symptoms of the condition are those of extramedullar, tumor of the spiral; cord but there are certain factors which aid in the different autono. One of these is the variability of the writing of the condition of the conditi

Armour D The Surgery of the Spinal Cord and Its Membranes Lecture III L no 1 9 7 cmi

Armour reviews the arious p ocedures which ha e been used to releve the pain of inoperable malignant diea e of the spinal cord and the visceral cri es of tabes lorsals

Dorsal root section for the chef of neuritic pains as as thrit propo of by Dana and fir it or red out for that purpose b Bennett in 1888. If was first applied to the relief of the assirtic crises of tabes do salts by Forster and Kuettner in 908. There have been amous mod first on so I Forster apper ation based on the diffe ent theories as to the mechanism of the pain in a tabes dorsalts. The results have evaned from complete failure to a few tables are a variety of the pain was reflect it later e.u. as east a when the pain was reflect it later e.u. and the pain that the pain was reflect to premain are that it required to the pain the pain was reflected to the operation are that it required to the pain the pain that the pain the pain that the pain that the pain that the pain that the pain t

Schueller in 1910 suggested partial section of the sp nal ord In the same vear Cushing siggested entire or p rt al cord section and in 1916 A mour and Cush g performed such operations there is tlactor, results

In toil Spiller suggested section of the anterolateral columns for the fel of the paj from maig nanc, and the same vear the operation was performed by the same vear the operation was performed by Section 1 and 1 and 1 and 1 and 1 and Ladwalader and Sneet mork doubt the technique on dogs. To Frazer reported x cases a which he had operated for the rel ef of pain due to miligonace or guesthot would In 1915 Souttar did the first anterolateral section for the gastric cries of tabes complete relief of the pain resulted. Since 1015 several other surgeons have reported series of cases in which this operation was done.

In his review of the physiology and anatomy of the spinal cord Armour points out the main afferent tracts and their relation to the crossed and direct praimful tracts. He states that the impulses of pain and temperature sense are carried tracts in the opposite anterolateral column zone tracts in the opposite anterolateral column zone These are Goner's tract and the lateral basis or ground bundle.

While it is supposed that each spesific impule lass a different tract for its conduction the exact cauton of the tracts is not yet known. Forster place the temperature paths in the dorsal part of the anterolateral tract and the pain paths summediately in front of them. Shiff karplus karelid mediated and others make the path of t

The technique of section of the anterolateral tract offers no special difficulties. The level depends upon the location of the pain. The section should be made from one to four segments above the upper level of the pain. The knife should enter the cord anterior to the dentate legament and emerge at the ide of or partly in the emerging anterior root. The depth should not be deeper than from 2 5 to 3 mm. Section should be blateral if necessary.

Greenfield has recently suggested a new method of performing chardatomy His procedure is a mediolongitud nal section of the cord applicable to the same type of case as the antero lateral tract se tion and has the advantage over the latter that a b lateral effect is obtained by one incision which completely destroys all of the pain conducting fibers crossing at the level of the in Other advantages are that it is simpler than the lateral section and associated with no danger of injury to the crossed pyramidal tracts The inci ion must be made exactly in the midline and about I in long Injury to the an erior spinal arters must be avoided. The author performed this operation in December 1026 in a case of tabelic gastre ere es but the patient died a few days later from pneumonia

The second part of the article is devoted to a discuss now of James et ass of the spinal cord and its membranes. The condition has been lesembed by various ansuel as angioma human spoma cavemous angioma and varioccele of the cord. By others it is believed to be of neoplastic origin consistency of the cord of the cord

In most cases it is the posterior vessels which are involved. The condition occurs most frequently in the cervical and lumbosacral regions. Trauma may

con titule from 35 to 45 per cent of all I rain turn is While relief for a period from the is given in 90 per cent of the cases an it leff ta few years in some cases a cure is very rate. Of the glomatous exits oo per ent and of the en intheliomata from So to 85 per cert are cute !

CHAIRT L 1 21

Colledge I and Ballance Sir L. The Surgical Treatment of I araly 1 of the Vocal Cord and of farabel of it Daptrugm E 1 M J 1317 1 411 600

This is the report of ex-ermental work I be on the m nker and the log to determine the mest favorable type of an stomosis of the recurrent larvegeal nerve in paralysis of the socal ecc is and to stuly the incervation of the daphraem

I r the stu ty of garalesse of the recurrent laren geal nerve thirty th coespenments were perf rine ! In six the nerve was anastomosed end to-size to the vages in seven erit send to the lescenders n m ari in twerty erlto-enter ent to-side to

the fact of the main trunk of the p r nic nerve The and to west the vagua and the descenten nort resulted in in rea el t nus ef the e rds and at I et a ne'ectrical stimulate a The lest fuec ter al results were obtained frem anastom s to the phreni either with one of the roots or en ! to al ctotle maintra k Indito-enfarasism to the phr nic trunk to ulted at times in two violent no ements of the c ris luting ex item rt this is probably to be explaned to the difference in function I the phrenic ner e. The paralysis I the disphragm which re ulted fr m set n of the phrene r r e ar i was partial when only ne rick t was cut an I total f rote half when the main trunk wa severed apparently clea ed up nittin in or thr em ntlaaterana t nos swiff the des en lens none The tests f rfunction were made by palpate n an I fluoros pr examin ti no

After and t mm s of the recurrent larve real nerve to the cirem nerve th re was a metimes a delay in the return f fu t n of the vocal fix o dathragm or I th Thi was prolatly a result f ove taxati n of the ner s energy by the pro-

ce lu e

The peats a fch scese metts be enit s le anastomo is if the recurrent larenceal nery to the main tru & f the phrenic nerve When this w s impossible the best results were bit ned from enit e I mast me is of the re urrent laringral rerse to the pr xim I cut en ! I the main trunk of the phreni and uture f the list I i I f the pl rem to the leven I ns n m

In the case fa woman th postoperati e pa als sis of the socal c rl ana t mosts f the courtent larangeal and phr ic nerve end to sil wa bilaterally Sight at lucte n of the right c I was note I after f e months and slight at tu ti n of th left or lafter fur m nihe In the same I ngth I time the paralyse f the fathragh c mpl tely disappe re i

According to Starting the key to the problem of re-erlocation of the paralyzed vocal circle after and tomosis of the recurrent Lity ageal and phrene bernes is the hold ng of th b eath or forced ine ra tion This ten is to al fact the pres ously immeb e cords and when repeated graduall testores the function as nerve regeneration progresses

The exact time of the return of function was not termine I in these experiments because of I ck of material but it appe el th tall cling procéed abducti n which ean be explain don a ph l gere tic la s It is known also that there may be parals us of the abduct a musel a when the rener are apparently intact or the remains g ad cter muscles are in g xul con ttl n

It has not yet been letermined whether oh ea to a will be po lible after anastomosis of the recur

tent laty need an i phtent nerves

In wime of the experimental anim is with be Literal anastomos s of the recurrent larenceal a perenic nerves the retured function was tofact to but d ring excitement there was posrespirate a due to incoord nation of the mucks. This is probably a part of the normal phreak meel anism or due to inc molete control by the rew n ree centers It was note ! only to w g the bilateral operation

The article contains the protocols of a steep over aty as perf rme ton eleven animals (to r d ream seven m Leva) in which the recu tert larvaged ner 'e was an stomove I to the phre ic rerse in Iferent wars The levenptons I the extra on are surplemented by dagr ms and phot gapts showing the posts not the ocal and

To obtain further sta on the physi logs of the recurrent larvegest nerve so eral emerments with electrical stimulati n of the nerve were carried out. They seemed to in cate that the sin bronous mo ements of the or I cor's a e un fer the cent of of the me lullary respiratory centers and not the cerel tal c rtex

The physi logs of respiration is also discussed parti ularly the relati n hip of the muscles of tespirati n and the m ements of the glitt These mu les an i m verrents are very int mately related and coordin ted but e do not vet kn # which is the met n me of the respiratory mo e ments Some I the experim ats brought out para i m at el tu n hips which suggested that the

diaphragm may a t in this can city The en re ental tudy of the innernate a of the I aphragm in I ated that the inner ation is some whit different fom thit ford nar skeletal mussles. Alth ugh it has been suggested that the is to definite p f of the as jet bati factory t in I funct n foll a suture of the cut roots e trunk of th phrent with the descende sin n In ne cas it I II ed suture with the lescen ling supe f ial cer ical (sensors) ner e in a b boon but this as tried only once

THE TS CR YOURD WD

me han nerve having its primary origin in the neuro en lerm of the developing embryo

In the discussion of this report BLOODGOOD said that he had never seen a similar tumor and that in his 200 nerve sheath tumors there was none with enthelial cells

Horskey also reported that he had never seen or

heard of a similar neonlasm

Lewis agreed that the neoplasm was unusual an i emphasized the importance of wide removal of such a tumor the restoration of fun tion being of secondary importance ALBERT S CRAWFORD M D

SYMPATHETIC NERVES

ler E G Summary of Experiences Up to Date in the Surgical Treatment of Angina Cutler E C Pectoris 4m J M Sc 027 Clt

This is a digest of the literature and a di cussion of the different surgical attempts to date to relieve the pain of angina pectoris. The aim of the surgical proce lures has been to interrupt the nervous arc by which the sensations of pain are carried up vard and is a rurely symptomatic form of treatment

François Franck first proposed operative treat ment in 1800. Tonnesco first practiced it in 1016 removing all thee cervical and the first dorsal sympathetic gangl a on both sides. His result was very satisfa tory but the treatment did not become popular at once In 1923 C ffey and Brown reported ave cases and adv cated mer ly removal of the superior cervi al sympathetic ganglion or division of the trunk bet seen this g nglion and the heart Sin e 1923 many cases have been reported in which numer us variations of this procedure have been tred with arring success.

In a re sew of the anat my the author shows the onnections of the vagus and sympathetic chains with the heart aget and the central nervous system by mean of a diagram The depressor perve (branch of the vagus) 1 afferent The supe for sympath tic gangli n is apparently purely motor Seaso y fibers in the symrathetic system run from the heat only as high a the middle cervical ga gion The flerent sympathetic fbers whether

going to the mid lie or inferior ganglion end even tually in the stellate sanglion and there are con ne tel with th aff rent fibers to the cord only fbers wh h mist b considered are the I tress r ne ves the fiber going from the heart to the milile a 11 ver cerv cal ganglia and the

t thora 1 and stellate gangl a

On the basis of experimental findings it seems unlikely that the depressor nerve is the pathway of the sensations of pain in angina pectoris Moreover it is very difficult to isolate the nerve with certainty We assume that pain originates in the heart and that the pain in the upper thoracic region and arm is referred from an overflow in that region of the spinal cord

Cutler has made a critical analysis of 120 cases selected from the literature These are divided into five groups according to the operative treatment (r) the complete Tonnesco operation (a) or erations upon the cervical sympathetic chain partial or complete (a) operations upon the depressor perves (4) combined operations upon both varus and sympathetic nerves (5) procedures aimed at the posterior roots themselves. The results were as follows

Group 1 good re ults in 62 q per ent definite improvement in 18 5 per cent Group 2 results in al 5 per cent improvement in 358 per cent Group a good results in nine of twelve ca es Group 4 improvement in both of two cases Group good re ults in 40 per cent improvement in

43 3 per cent

From these figures at appears that the Tonnesco procedure a ves slightly better results than the other cervical sympathectomies but has a slightly higher operative mortality (11 per cent) It appears al o that the results of cutting of the motor path ways (superior cervical ganglion) are not as good as those of section of the sensory pathways (the lower ganglia) Since in some cases in which the superior ganglion was left the pain recurred in the area of its distribution this ganglion must some times be a factor in angina pectoris The operations on the depressor group are too

few to warrant conclusions and there is consider able doubt as to whether the nerves were actually cut The injections upon the poste for nerve roots seem too uncertain and fraught with de mer to appeal as routine methods of attack

In conclusion the author states that further experience will be necessary to settle the question regarding the extent of the operation indicated The far ure of any single procedure to cure in all cases and the variations in results from various procedures make us realize that much is jet to be le rned regarding the mechanism of the pain in angina pectons and the anatomy and physiology of the sympathetic nervous system

LEFRTS CRAWFORD AT D.

occasionally be a fact r. In some cases there are a wriate I nevs suggesting a cong nital origin Variat on of the sympt me is a diagnostic feature The on et is a nally ullen and the levelor ment I tel There may be complete or partial recovery fr years Exploration is the only sure method of Ligation is not often a lvisal le or possile Leaving the dura or uture i may result in some berefit ALBERT S CRIME AD MID

PERIPHERAL NERVES

Jalcowitz A 1 The Prognosis of Periol eral Nerve Injuries Treated Succionity (2 e Improve de special les fitten peripher a Straft ser le fitte peripher a Straft ser le fitte fitte ser le fitte ser

Of any cases of ner re-injury operated upon fur ing the war in the 'on I sel berg she c a re examinati n wa mate in nin ty ix All of the latter were case of gund t wound at I the major its were I e to el etu to I rom seven to ten year had clay sed since the eneral n

The result and a referred presi a unlas rable experience a regal to the entresults of nerve suture. The trachial plexu w s invol ed in e ght een cases the radial ner e in twents nine the me I an nerve in nineteen the ul riverve in fiteen the se atic nerve in t elve ar I the peron us per e al ne in three In f et a v (al out to per ent) of thenfacts is case the ewa no impro ement and in f rt are o is m lerate improvem nt Marke! imor ement occurred in only eine. There was no complite cure

Tierrogro i le t when peration a performed in the first six m nthe aft r th ing re lut may be god up t the rinth m ath Mer the ninth m ath it i abul tels unfavorable. The mir flere reco er the most ea h and rag the in th case of the sensory there th pr g wis 1 con Her ils les fa rable. The vasomot riber never rec v r

function

The best re ult were of tained in the rad al ner e and the next be t in the medi n and scrat c nerves In the es e of laur nerve and particularly i the per eu nerve the sutl ki teci teelly less favor at le

The result were best in the cases I neurol Wen extran ural neuroly a was dine faverable re ult were of tain I in al nut yo per ent of the cases these in tituting most f the cases with

marke lampr sement

In aver if perve suture urrounling the eve with a flap of muscle at peared t give some hat better results than tubul zat n or surroum ing it with fat In a ase in which tul ul zation was done

without suture there was no improvement Foll wing neural is the beginning I impro e ment I n tel within the fret half yes wheres foll wing nerve sut re it i noted between the thirt and ninth m nthe As a rule improv m et eases to the end of a year but in som asses ma on tinue for two or the e years Vers at Ling 1 th

not use mmon association of good electrical exor at il to of the nerve with fefective po er of sense contraction In such cases some a list onal m provement may be of tained from ps ch therapy massage and electrotheraps

Lanford J A and Cohn 1 : Fpendymal Neopl m of the M dian Nerve with Case Recort 5 14 H J 192 373

The case reported was that of a man 35 'e nof age who sought treatment f r pain in the n t shouller extending down int the hand both if been present for six months and was become g rogres nel worse It began follows g a sudien strain and wa accompanied by marked atroph and weakness fth right fre rm and hand

I tamination tes ale fa h ti terd r mas on th inner site of the ell ; just above the i terms condice involvement of the me n serve #15 e al aced by paralys a atroph troph c tha get and hyperasthesis over the di tribut n of the

On exploration the tumor was found t a w from the me i an nerve li w s tem with cutt th nerve above and belo it The proum le d of the per e was then sutu et ent t ide iris the the rerie and the listal end into the int r !

Cutanegu (routh the tumor as sindeshaped 7 cm king and 3 cm will in its greate t dam tir ft appeared to be a ne remex sarcoma. On hist be ical stuly a tentati e diagnosi i careinoma the glan I cell type wa re le but the primar) origin I the growth was un letermine !

frour merths later the patient returned ith a ma abs e the site of th tum r pre kul re moved On expla tun the provett be a recur rent tumer. In its r m val the cutt ng was no more alels than in the r m al f the pre L tumor The path logical reg rt a rec ret carcinoma imil r to th primary gro th and of

unker wa o igis

Fight months I fer the I t nt ret med a than app cently recurrent to mor in the same reg a-This soon seemed to stend feeper and I invol e the structures of the lb w four m oths later the rm wa amp tate 1 t the junet re of the m ide an tupper thir t

The hist I gical fingue is of this tum r was neurogenic sarcom with absence of the g and the

at e n t in the primary gro th

The suth re pe int out that th tumor in the case was a it e in that the little histol great che racter Lucs I an epith hal tumor but n connectior to it apparentl are t auggest n egith h 1 mgs fr m the m fian ner e It d el ped the charactet istic of a n rgn treoma b t nh sh r the tem) al f t ogn th In the authors op nh a it as an epen is mal structure a ntaining gland lie spa es in a neurogita matrix and probable sprang from a c ll which a carried down from the central n rvo system during the de clopment of the ease These tumor cells constitute the Laget cell Their growth is intra epidermal

2 The invasion of the epidetim leads to reactive changes in the underlying connective it sue—in filtration of plasma cells etc new formation of capillaries congestion with serous evidate. In this way the characteristic appearance of the nipple results. Later the superficial lavers of epithelium may become destroyed and this process may spread

3 The disease of the ducts which may be called an intraduct carcinoma may be said to have a low degree of malignancy as it may affect systems of ducts and even spread to the acini without break

ing through the normal confines

4 The growth of the tumor cells is in the first instance intra epithelial and in the larger ducts and sinuses much probleration may occur before the internal lining 1 troken

5 The growth within the ducts or acini may ul timately beak through an ordinary infiltrating cancer then resulting. Both Pagets disease and ordinary carcinoma are thus possible sequels of intraduct carcinoma. Fruit C Rontriefex M D

TRACHEA LUNGS AND PLEURA

S ntee II E Bilateral Massive Collapse of the Lung 4 S f o 7 lxxxv 608

Santee reports two cases of bilateral massive collapse of the lung with the autopsy findings. Autop y revealed no obstruction of the bronch: The micro scopic preparations in both cases showed a ti sue which it was difficult to recognize as lun, resembling that of a solid organ. This appearance was found to be due to complete atelectasis of the pulmonary alveoli the epithelial cells of which were closely packed together having lost entirely their normal alveolar arrangement. The individual cells were swollen certain of them being obviously hydropic and the cell outlines were rather indi tinct bronchioles were also collapsed for the most part many of them being represented merely by c reular clumps of cuboidal cells The capillaries arterioles and venules on the other hand were all uniformly dilated and filled with blood which in certain areas produced almost an angiomatous appearance This constituted the most characteristic feature of the hi tology of the condition

In Santee s opinion the best explanation of the collapse seems to be a reflex of turbance producing a constrict on in the air passages which probably affects the small broncholes is not dependent originally on infection and acts on both junes

A chibald E and B own A L Tle Dangers of Introducing Iod zed Oil into the T acheo bronchi 1 System J im M 1 3 29 7 1 x 1

Besides its manipulative and technical difficulties every method of int oducing iodi ed oil into the tracheobronchial tree has certain potential dangers such as the danger associated with the amesthetic

use I whether local or general and the possibility of local sepsi and lary ngeal credema. In the use of the interectorchy roid route there is the danger of a false passage. Broncho copic examination has in son dangers. In the deglution method there is the possibility that large quantities of the oil may reach the stomach.

Fransportation by the oil of infective material from the mouth or laryny into the pulmonary at yeoli is probably rare but when it occurs an antiseptic action cannot be expected from the lipiodol

The introduction of hipsodol into the traches bronchal tree generally excites cough both at the time the oil is introduced and after it has reached the bronch of the second order. The cough may in turn activate the pathological process already in the lung or cause the spread of the hipsodol with infected material into the healthy alveoli this reaction.

Acting as a foreign substance in the lungs the oil may produce cough and reduce the vital capacity by causing more or less respiration; embatrassment through its action as a plug. Because of its plugging action and because it floats it may cause the reten tion and absorption of purulent secretions are dilated bronch and alteol. Through stass in the portion of the bronchial tree di tal to the block it may favor the development of a fresh infection.

Since it is impossible to regulate the dosage of oodine administred by the intrabronchial route either as to the amount or the rapidity and duration of absorption such a procedure subjects the patient to the possibility of iodism. In the cases of tuber culous patients it may have a sensitizing effect with activation of the quiescent disease. It may also add an acute process of the respiratory tract to an already present pathological process from rodism the usual congestive action of iodine or the projection of infected sputum through coughing into healthy portions of the lung.

EUIL C ROBITSHER MD

Burrell L S T Edwards A T Martin G E Wilkinson k D and Othe s Discussion on the Treatment of Chronic Non Tuberculous Infection of the Lynch P Company of the Chronic Non Tuberculous

infection of the Lungs Por Roy Sc Med Lond 917 xx 731
BURRELL states that in bronchiectasis the treat ment must depend on the severity of the disease Sometimes the condition is most offensive but in a mild case may cause the patient little if any in convenient and the treatment must not expose but not on the control of the condition in the control of the control o

hm to greater risk than the condition must be searched for and if possible removed supple measures should be true first Dranage by posture is often sufficient to cure Cressote is the most beneficial drug and is best given by in halston in a cressote chamber Arthrical pneumothorax; accessful if the disease is unilateral and the lung can be collapsed Usually however there is too much adnession of the nleura

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Hart D. Intracystic Papillomatous Tumors of the Breast Benign and Malignant. An Analysis of 124 Cases. Irch S. g. 1927, Ev. 203

This article is base I on a study of ros benign intracystic papill matous tumors of the breast twenty four malignant tumors and five tumors the nature of thich was uncertain. From his analysis of this material the author concludes that the benign pap flomatous cyst is a disting type of tumor with a fairly uniform history and physical findings. A mp ple discharge usually bloody occurred in 66 per cent of the ca es revieved. This may be present in the absence of a palpable tumor. Under such esteum stances it demards close ob ervation but is not an indication for operation. In the cares reviewed the tumors of the benign group were found to appear at any age after puberty but the mahanant tumors occurred only after the age of 34 years All but 2 per cent of the patients were females The duration of the tumors was extremely variable some were present for from twenty to thirty years growths may have a firm nodular indurated con sistency due to multiple cysts tensely filled vith fluid and so situated as to suggest a single tumor They occur most frequently in the central zone of the breast but occasionally in the pe iphery

Contrary to the usual bel ef the tumors were mil tiple in about so per cent of the cases although clinically they were classed as single in 81 per cent They are usually small but in 38 per cent of the cases they were over 6 cm in diameter There may be some retraction of the niple due either to the mechanical action of the tumor in pressing on the ducts or to the contraction of scar tissues when infection is superimposed. The skin is usually norm l but may be tense thin shiny and red or sho a sinus from rupture Changes in the size of a tumor associated with a blo dy discharge from the nipple is almost pathognomoric of a papillomatous tyst Pathological examination usually re eals a cyst with one or more papillomata a thin wall and no inva sion Frequently there are mult ple cysts surrounded by all typ a of epithelial proliferation or associated with hamorrhag or infection causing fibrous pro liferation

Of the group of cases of malignant tumo s a large percentage presented the petture of cancer claimants of the case of the case

that would sug est main nant change us a beauts tumor Large tum is were mo e romyon and par a was moreoften a symptom in the malirman. The surface In a very large number of the cases of being tumors radical treatment was given broty per cent of the patients with such growths were subjected to amputation of the breast and 38 per cent tradecal operation with removal of the pertoral muscle and operation with tenoval of the pertoral muscle and

avillary glands Most of the d agnoses of cancer or su pected cancer. have been made at exploratory net ton Removal of the breast alone in cas a surgesting cancer is unjustifiable being unnecessarily rad call if the lesson is being an il nustificent if it is mal g until An accurate during a can be made better by the Anaccurate during a can be made better by the control of the cyst contents in the cryst well are of more value to the disagnosis than the nature of the cyst contents.

As patients are non coming under observat earlier the diagnosis is more difficult and the an extension and to be found at explorat ry incs in a The tumor should be excised and then thoroughly e am incel.

Of the patients with been n tumors 65 per cent were followed for from one to twenty to 3. None developed cancer. The fact and the 1 that None developed cancer. The fact and the 1 that sharpe percentage of the patients who will evident mailing ancy when of recurrence are proof of thee ten mailing ancy when of a recurrence are proof of the earn and difference between the two groups. The large so son that the malignant tumor has a relatively low grade of malignancy as eroneous and was passed from the groups gof beings tumor is when the groups gof beings tumor is when the cancers.

M ir R Paget s Disease of the Nippl and Its Rel tionships J P th & B t tol 9 7 x

Muir de cribes the pathological hanges in Pagets di ease of the napple gi e his opi uon to their nature and s guitcanc and cites the chief theories advanced by others

He discu ses in detail the change in the dust the extens on of the callulation to the cit the changes in the epiderms the origin of lags is cells the reactive phen mena and the dist spread of the cancer to the epiderms. The cases are reported. Evidings from con detail to exist the cases in which the epiderms of the nipple is na! the cases in which the epiderms of the nipple is na! the dist the cases in which the epiderms of the nipple is na! the cut of nipple is na! the nippl

1 Paget s d case is th result o the inv s on of the epidermis of the nipple by tumor cells of gl n dular type which reach it in the upper st enuites of the lactiferous ducts affected by neoplastic dis selves In non tuberculous di ea es of the lungs the bronchoscope is a valuable aid in localizing pathological conditions and determining the par ticular bronchus or lobe of the lung that is involved The removal of a foreign body from the lungs in these conditions effects a cure of the accompanying inte t on in go per cent of the cales

Contra and cations to bron ho copy in the treat ment of disea es of the chest are very fen Recent hemorrhages and he h fever with its accompanying prostration demand postponement of such treat ment Concurrent evere heart infections may pre clude broncho copy as it does any type of opera tion The patient who shows all the signs of an a cute to ramia is of course beyond bronchoscopic aid

By the use of the bronchoscope any cavity vithin reach can be sucked entirely dry and in many cases its walls may be collap ed Bronchoscopic drainage better than natural drainage

In cases of circumscribed lung abscess the broncho scope is useful in lo alization but the only treat

ment 1 the exte nal operation Martin has examined and treated thirty one cases of bronchiectas s First as complete aspira tion as pos ble was done with the use of a fairly trong pump attached to the aspirating bronchoscope and a vacuum suction pump on a two way cannula passe I through the bronchoscope into the cavity Then when the cavity had been emptied it was mashe I out with weak boracic solution and dried In most ca es it was afterwards swabbed with all oh 1. The percentage of cures has not been

la ge Lipsoid 1 meeted through the encothy rold mem brane is by ken up into globules by the air draught in the t achea and i he eve these globules adhere the appearance of a cavity is presented

WILKINSON d scusses the etiology diagnosis and tre tment of b onch ectasis. He states that in the treatment three measure seem to give good results (1) postural d amage (2) creosote inhala tions and (3) vaccine the any

CR R STEINLE NID

Holman E Chandle L R and Colley C L Expe iment I Stud es in Pulmon ry Suppu rat an S & G 6 06 1 19 7 xl

The authors applied to studies of tuberculous infection of the lun the technique which Holman Cutler We dlein Schlueter and others have re cently used in the product on of non tuberculous pulmonary nfection namely the introduction into the jugular vein of small segments of vein made into cap ules in which were enclosed live human tubercle bicili and a lead shot immersed in paraffin the latter to 1 d n \ ray localization

Marked pathological changes were invarially p oduce i Their extent depended upon the interval of time which had elap els ce the introduction of the embolus The changes were successively anymia inf retion caseat on central softening an I ab ce s formation. The sequence of events was much

slower and more constant than that associated with ny ogenic emboli

The effects o progenic emboli were most un er tain In some of the animals the intro luction of a progeni embolus cau ed only a local consolidation of the lung with early recovery In others it pro duced a hamorrhagic infarction followel by recov ers or by central oftening and abscess formation In still others it caused a massive hamorrhagic con solidation and death. The authors attribute the e variations to the site of lo igment of the embolus and the amount and location of thromb) is caused by it They cite MacCallum's ob ervation that in farction is more apt to occur when some other condition causes a general slowing up of the circula tion of the lung as in postoperative pas ive con pestion

During the experiments reported the authors developed a method for the primary closure of a primary bronchus The most important elements in this proce lure are the avoidance of trauma an I the insertion in the peribronchial tissues of a double JEROVE R HEAD M D row of inverting sutures

Anderson J P Pneumothorax Treatment of Lung Abscess Oh Stat M J 1027 xxxx o

The prognosis of lung abscess has been universally poor Of the cases not operated upon which were reported by Lord recovery resulted in 10 per cent partial alleviation in 15 per cent and d ath in 75 per cent. Of the 11 cases in the series which were operated upon recovery resulted in 153 per cent partial relief in 188 per cent and death in 47 8 per cent Lord gave pneumothorax a very small place in his treatment but Inderson characterizes it as a simple and safe procedure which will cure some cases and render others better ri ks for surgical Anderson reports the cases of six patients treated by pneumothorax two of whom were completely cured and four of whom were greatly benefited and made better it ks for opera

T o of these patients developed valvular pneu motherax and propneumotherax. One was treated by surgical drainage and recovered. The other an elderly women vith poor resistance left the ho pital too soon and could not be followed up her condition was therefore not recognized soon enough and terminated fatally. In another case pneumothorax nas be eficial urtil the development of pneumonia follor ed by dense adhe sons Surgical drainage was then indicated and was successful. One case of very large abscess was prepared by pneumothorax for thoracoplasty

Anderson concludes that palliative treatment should be tried first but if it do s not result in improvement in a month some other form of treat ment is necessary. When surgery i contemplate i the patient's general condition mu t be con idere] The best results are obtained only by close co operation between the internist surgeon and branchoscops t CHESTER L CREAN MID

I brenic evul ion has been time when theum thorax alone has not been sufficient and especially the there ha heen considerabl a thesi n to the d at hragm but in Butrell's experience this opera tion ha not pr ve lof great value. In som ca es very got I results have been obtained from aspirat ing the b onchiectatic cavities and washing them out through a bronchoscope In a les ca es Burrell has seen excellent results from thoracopla ty but in the majority this treatment has been disar point ing Sometimes the condition may be alleviated by opening one or more bronch al cavities lobectomy by cautery cems to be a very promising operation but as yet has been done in relatively few cases In treatment by pneumolysis the lung around the di eased area is collapsed by stripp og the pleara an linserting wax or fat This proce jure has not proved very successful Lohertomy also has been done but is extremely dan erous

Acute abscess of the lung often yiel is to simple treatment-rest hagienic measure posture etc If there : no improvement in a month Burrell advo cates artifici I pne imothorax. In one of his cases in which artificial pneumothorax failed the patient

made a good recovery after partial thoracor lasty I neumonivos sis regard d by some as a frequent complication of chronic pulmonary di case From examination of the sputum in a large number of cases Burrell con luded that the yeast cells so often een come from the mouth and not from the bronchi or lung tissue except in very rare instances

EDWARDS di cusses (1) chrome simple abscess of the lung (2) chron bronchiectatic ab ces and (3)

Chrome simple ab cess consists of a localized suppuration in the parenchyma of the lung rot communicating at bist with a bronchus and sur rounded by an area of chronically inflamed solid lung to ue No attempt should be made to confirm the dia nosis by needle aspiration unless it is certain that the pleure are adherent Because of mucosal swelling in the communicating bronchus tip o lol rarely enters the cavity As the condition t chronic it may be inferred that ord nary treat ment has fa le I and that more radical mea u es are indicated Artificial pneumothorax may be alual le in some cases but i more beneheral at an earlier stage

the ideal t eatment is pneumotomy with drain age of the abscess to the exterior Tins should be local or intratrache l anasthes Becau e of the swell ag of the mucosa of the com mum at ng brouchus drainage occurring through the bronchus is rarely adequate

As health progre ses the larger abscesses mie rise to con a lecable fibro and often the ef re to secondary bron hierta is. In order to complete the cure and to get mi of all expect ration it will be recessars in some cases to perform ph enic evul ion to dimini h the lung capacity on the affected s ic Unless this is done thoracoplast may be required later

The bronchi ctate abscess is a multilocular ab ce cavity stuated most frequently a th I wer lobe an I communicating with several bro chi Foreign bodies may be the cau att ela t r These c ses should all be primarily investigated by the bronchoscope to el minate the presence of a f reign Continue I lavage is satisfactory only in a few cases. I neumoto by has been fairly enc uraging an I accounts I r the suc ess of drainage operations in some ca es fescribed as l'e nchiecta is Becau e of adhesions artificial pneumotherax is n t l lels to prove of much value. Ho ever if the operation is properly completed and free dra nage of all pock ets is established gra lual obliteration of the cavity occurs Sub equent phrenicotomy or thoracoph ty may be required to close the cavity

Bronchoscopy should be perform 1 as a routine in all cases of bronchiecta is and if a foreign body is found it should be extra ted. In blat ral case the scope of surgical tr atment is him ted in I the likelihoo l of beneft is diminished The surgical mea ures may be ad pted (t) regular evacuation of the dilated bronch with the bronchoscope fullowed by the instillation of antisentic solutions

(2) bronchostomy In the past unilateral cases have been treated by

the following procedures

r Artin ial pneumothorax. I en when om plete this is I kely to be of permanent benefit all in the very early stages of the condit on

2 Drainage through the chest wall This : e) unsati factors and has be n landoned
3 Bronchial la ge by way of the tr nch

This has proved of more value during the elir stages and in some cases may give use t ton i let able improvement if not cure

4 Bonchostoms The is rately adeq ate but in a few cales may result in ma ked ameliorati n s Phre ic avulsion This generall lead t d minut on of the sputum or fact r or both b t the author has yet to see it ure an establ h t ca e of bronchiectas s

Thoracoplasts the collapse of the h t n li ts extrapleural resection of the para ertebr I po to a. of the first to the tenth rele enth rits expected to lead to consil rable collapse I th underly ng lung but because I the rights the affecte la eas do not al ys collapse freq ntl when it is po ble to cll pe avites a the pe riphery of the lu g th e near the h lum rems

ffecte 1 I has perf rmed pne me t m with th cautery twice and lobect in nee a i beli e they a ould be d no nly in retulls selected ase

Marth state th tite ue f the ! in treatment is still a the experim at 1 t g many bi ider co intions can be tr t i smil by cystose py so al many the t condit as a be referred to the en lowor ist i tratment eg e ses of bron hectalis or I ng bace tr the a p ration of the pus lying stagn at in the ca it s or for lavage r med cation of the assists them

with Pott's disease suggested the question as to the removal of a foreign body lodged below the kypho sis Schall therefore studied the effect of scollosis and kyphosis upon the œsophagus by roentgen examinations of forty five patients with spinal de

This report is made up chiefly of neentgenograms of the cases studied It was found that in main deformations the escophagus tends to maintain its retail and the compared tends to the antenor surface of the vertical to follow the curvature of the spine. The compared filling of the escophagus with barma dies endeat distation suggested exaggerate I twisting at the cone of the disphragam. The author concludes that a foreign body folged in the escophagus above the aper of the hyphosis may be reached above the aper of the hyphosis may be reached or eign body lodged below the aper gastrotomy with rettograde exophagostomy, may be necessary.

P Lotilo V A Case of Antethorac c Œsophago

plasty According to the Method of Roux Which Was Followed for Three Years (En I all v. n. a teth ak ler Oe phaguspil stk nach lou 3 Jahel g erfligt) A ray ch rg ch 19 6 355

On the basis of two cases in one of which death resulted from necrous of the transplanted loop of intestine the author discusses several question with regard to assoniagenjasty. Most important in this operation is the preservation of the intestine shelt is to act as a substitute for the exosping. This is possible only when the arterial loop's in the measurer, are a suited close to the intestine addition of the substitute o

I his indiogreal studies of the newly formed exoph agus by means of a kymograph three years after the operation showed that the transplanted loop main tains its mobility and thereby serves for good convenance of the food. Swallowing is hindered some hat by emotional evolutions to the function is quite easy and complete.

In conclusion the author states that in cases in thich the vascular loops in the mesentery are not favorable a tute! The oxophagous should be formed in suitable and the oxophagus should be formed from sain.

Morgan E A Rolph A H and Brown A Clinical Manifestations of an Enlarged Thymus Diagnosis and Treatment J Am M 1ss 1927 INXXVIII 703

The authors have studied fifty four cases of enlarged thymus with special reference to the symptoms

symptoms
Breath holding pasms occurred in twenty nine
cas s Such attacks come on during a spell of crying
The child holds its breath becomes cyanotic and
susually falls to the ground
Transient uncon

sciousness may result
Syncope occurred in nine cases As a rule the
child with syncope is suddenly found unconscious
He is usually pale and his respirations are almost
imperceptible The attack may last from a few
minutes to a few hours

Cyanosis was observed in eight cases. It was not associated with typical breath holding spasms. In three it dated from birth and was persistent. In the remaining five it came on in attacks la ting a minute or longer.

Cough occurred in seven cases It was the principal complaint in four and was secondary in three

Noisy nasal breathing occurred in six cases. The authors cannot explain the relationship of this symptom to the thymic enlargement but conclude that it is caused by the latter because it ceases under X ray treatment in the thymus.

Choking attacks occurred in five cases These attacks come on during feeding and suggest the aspiration of milk. The child chokes becomes cyanotic and must be turned over and slapped on the back before it recovers.

Other manifestations of the condition noted were typical thymic asthma in three cases rapid panting respiration in four cases and nervous manifestat ons such as sleeples ness restlessness and irritability in three cases Eczema was observed in twelve cases

The authors discuss briefly the theories regarding the function of the thymus the mechanism of the production of symptoms when it is charged and the technique and effect of xry treatment travited in the fifty four cases reviewed a most process of the contract of the chargement and symptoms occurred in twelve (az per cent) and required further tray treatment.

ESOPHAGUS AND MEDIASTINUM

Kelly A B Nervous Affections of the Œ ophagus J Laryngel & Ol 1 1927 tl 21

The author describ s the anatomy of the crooph agus and the peri croophageal nerve distribution. He points out that the left side of the croophageal projects beyond the trachea while the right half lies beneath it and is compressed by it. Because of this fact the right half may be more liable to cancer.

than the left hall

Experimental work has shown that stimulation of the perspheral ends of the cut an cause on tractive over the whole escophagus with distintion of the arids but section of the vags without standard without relation of the range without tractation of the cards. The tonic out traction of the autonomous nervous system post dures spasm. The author illustrates this post dures spasm. The author illustrates this post by montenengerams of cats are shortered and feel be simple to the sympathetic near our system upon the assophagus is not well understood.

Ent exceptingeral spasm is usually found in middle seed women in its gradual in onset and progresses to the extent that the patient must finally subsist on milk and egar. Choking spells and requiration often occur. On extamination of the mouth and sharn as it will be seen that the appulls of the foreign and the seen that the papils of the foreign and the seen that the papils of the foreign and the seen that the papils of the foreign and the seen that the papils of the seen that the seen

The treatment consists in stretching the constituted circopharyngeal muscle. The patient is encouraged to believe that she can swallow all types of food and this ability is required before she leaves the hospital. The cure is usually permanent

If a partial relapse occurs it is easily overcome by the

p saige of a bouge. In a duce so not of the case has a discussion of the anatomy of the lower end of the excephagus the author points out that the cardina same course at the hazila region and not at the cardina. The outside the conduction is greatly that the difficulty at the properties of the conduction is greatly that the cardinal same partition. The latter is relieved by dimlain or by generation. We have a difficulty of the cardinal cardinal same and animal develop. Disphaga is increased by fatigue o hurrying at me is when a boilus of of becomes lodged it must be shared down by a drink I water or te require tate. If Many tients complain of divisition and of some

The \ ray g ves an accu ate p cture of the proces of deglutition n cardio pasm. The cesophagus is seen to be gr atly dilated and the cardia closed After an interval the upper segment seems partially constricted and the opaque meal begans to gas to rose through the filler process into the beams which is a long period of time some of the bomous which seem to temain in the exophagus which is markedly didated and of varying shape depending up in the location of greatest distation. Such marked dilate times in cancer or centralial step is a construction of the second o

on is not seen in cancer or continual sten is a The author employs a peneral anauthetic for endoscopic evanimation. This will reveal the dilatation and the stythme widening and an arowing if the lumen with consonal relaxation if the cardia of the hattile seed has a peculiar appearance. As the time reaches this portion the cardia will is cliply the reaches this portion the cardia will is cliply the reaches the portion the cardia will is cliply the control of the reaches the portion of the cardia will see the cardia will see the cardia will see the cardial that after an article will see the cardial visual reaches the cardial visual seed of the cardial visual visual

The patient can allewate the conduton by select the condutor of the case and certain egetables. Cold I quids seem to agravate the pasm Various positions of the body will aid swall owing. For distation the author prefers Gottstein's cardia dilator. Dilatation with his instrument is usually followed by unprovement

and sometimes by a cure

The author describes the postmortem appearance of the exophagus in detal Autons; rev is a dilatat on and thunung of the walls with thicken is g in places and often ulceration of the muc sa leuroplakia etc. A ca e with hypertrophy of the cardiac sphincter pyforus a difeocacal valve is

rep rted Para's s of the ecsophagus is n t u common in certa n di cases involving the nucle or trunks of the yage. The se conditions mu t be differentiated from thes in which the touble hes in the phary ngeal muscles o deglut tion. Mot cas s are found associated with the toxic neurit foll wing diph theria Dyschagia is the mo t prominent ymptom When the food is washed down with ware it e ters the stoma h ith a pecul a sou d Thi type of d sease can be usually traced to some rdit on of the nervous sy tem or of bulbar o igin It can be detected on endo copic ramination i om the i ct that the tube passes through the esophagus without any effort. The exophageal wall are r I sed and dilated and the cardia sphinet r can be pas without the usual resistance. The author eports t o case of botul m to which this ordition was a sociated with paralysis of other groups of muscles

Shill A The Esophagu in Potts Disca and Scotlosis A Oli Rh 1 L yngel

MILLIAM J PICK T MD

A case in which the author had occasion to re move a chicken bine from the exophagus of a child When in recent ex seminantal work done by the at it there intertails the princess within planted from the ramman; plant [et a.], the man plant per ted in 'effautch and after a medi serted a smuch as 6 cent of juscie none him. A hamoral me had in I c partesatic secretion was therefore effolted, pract because the only way the cere effolted, pract because the only way the cere

t n call have been estall hellunder these cir cumstan es was through substances carrel to the parecess through it block tream Several diflerent median m must be eyected has the

La creatic se retion

I record incestignts not see proceed that the gall 1931 it has the functs no blue a monitorion. It first like by so rele in the regulation of the pressure in the fill ary losts. The most important acts so that the notion when the gall act of fill ary it steeps are them till sy additions of the due to the fill are its special term. If you want to the gall act of the due to the gall act of the due to the gall action.

Her t A F 2 On Su Catted Ca triefly pertonus and Catropt 1 and At nic Dil tation of the Stomach I I Fal 192 at 11 231

The author believe that the types of a much or min all dignocity rentre to the hyper time and as fright are incorrectly named. He has eith belof on the filling fact.

The tax but conthe level of the autiace of the st much centents and the Laghragm in the e ect p to n as let rour l pentger l ic ll which lag rully to ar led a an accurate gauge of I the ma ulature I alout the ame in tletr f the so c ! I hypert nic type an ! t the 1 poet vanets. The time is 1 st I il same in I th There i n est er e in a regard what are that the atoms he as it good t al sell wit than the level it f rmerly secure ! in that when the j t nt was examined by the am t t f str t s m r t equi alent t It's eve that the appearance a lpo mon muchintly two con ton may learn at li. Sell otherent and theat mademaken e if it t f fat I fac ce the f sition of the st ma a mah sase mmorly be eved alth uch I go at m h is m t comm n in th hope . . the their softhelow the hile in the a th

17 12 wett there is barn 1 7 I pett 2 5 It are L 316 21 t * 1 17 with the first 101 rt n 1 1 16 Ĺ 1 4 = 1 1 1 1 45 t r g i thef ! Inth at eile ga c

discuss such atomachs give ruse to as imptores only in exceptional case and in these it is frequently found that it eduo fenum does not drop with the stormed in the erect position as is usually the case but remains fase! This results in a sharp kink between the first and second parts of the doodenum and leads to gastric stat is. The symptoms may else appear when the subject lies down. A case illustration this condition is reported in testal.

ADOLDS HARTING M D

Niclser M. A. Acute Dilatation of the Stomach Occurring under Ceneral Anæsthesia 1

The gas re ponsible for acute dilutation of the storach is atmospheri air. In the ana thetize feat acute litutation of the storach can be per lived by placen, in the upper crophisms a glassymmetric with a value that permit whe entrance of air but like is its cut. The air is drawn into the upper crophisms because in the air is drawn into the upper crophisms because in the storac and

from there is drawn into the storiach 13 (2007) hagest pen 141 is. The liming liste systemic effects of dilatation are slight. The latter effects in exist that need it released may be nown. It is supersted that many of the

symptoms are due to severe dehy fration

J no J Max , M to

Hugh n W Tie Effect of Vagus Neur forms on the Poloric Spi Incter An Experimental Study J im II fir 1927 laxx 1 20 2

In experiments on digs. Hu hour fund that section of the cast is rest eith rat the early or on the anten rand j tenor walls of the storned caused a Secrees in the nimil emitting time fibest may have been read entered as impalled the storned to the second of the second in the second

I I have section of the varieties for the gartine fractice of the variety is a simple. It to probate a refer pal repair by personal instato. The latter reaction had been four to be constart in all arims with an intervace supply in the contract. The effects of of the vague in the formation of the palment of the palment of the personal probability of the personal protains and the personal probability of the palment to a personal probability of the personal protains a personal probability of the personal probability of the probability of the personal probability of the personal protains a personal probability of the personal personal probability of the personal personal

I m a f c states MD

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tamin as a Test for Ca tri Function 1 th

Then the smale act many in between of lines for all parts and is and for to had and is in figure and one of his termine force multiple with the med Orly 55 per cent of a conscious with the med only in a was diagnosed after the conscious with the state of the conscious with the conscious constitution of the constitution of the conscious constitution of the consti

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Con ell F M Recent Advances in the Surgery of Hernia Lanc 1 19 7 cc 478

The author divides the history of the herma operation into three perio is represented respectively by (1) hern otomy (2) hermorrhaphy and (3) hermorlasts

He believes that either an actual or potential pentoneal sac ext to in all subjects and therefore all oblique inguinal hernie are congenital

In the ordinary hermorrl aph the sutured parts do not stay approximate i

In 1915 the author dest el a herniopla tic oper ation for of lique inguinal hernia. In this procedure a ped le I flap is prepared from the inner portion of old que aponeuro is an i a slip from the outer portion The flap is then suture I behind the cord or round beament ly means of the Pountets begament and above by a thread to aponeurotic or fascial to sue. The external oblique aponeurosis is cl sed by thread or free fascial sutures.

In the treatment of a direct herma the brect sac is conserted into an oblique sar by traction on the potential oblique sac and the opening is closed as in

an oblique herma The operation f r femoral herma is alvays per formed by the inguinal route. The opening in

Poupart's begament is closed by a pedicled flap taken from the lower portion of the external oblique

muscle

Ventral hernix are closed by the use of strips of fascia lata Three to 4 inch strips are long enough if they are attached to a looped thread for sewing Aspecial fascia needle is u e f Defects in the abdom inal tissues may be closed by a larger fa cial trans plant

The chief causes of recurrences are (t) insuf ficient resection of the sac (2) defective I ration of the sac (3) the inclusion of sac contents (4) the persistence fa too patent abd minal ring (4) poor closure of the nametes (6) omental adhesions to the line of suture of the sac mouth and (7) suppuration These are all prevente in the author's hermoniasty Statistics are given with regard to recurrences

MARCES II HO RT W D

Peritoneal Abso pti n Campa l Marton C B ion Between the Normal nd tie Inflamed Leritoneum 4m J Jl S 1927 1 517

The pos ible d serence that might e st between the rate of absorpt on in the normal peritoneum and that is the inflamed peritoneum was investigated by Morton with the hope of obt in ng data of value in the treatment of clinical peritorit s

In a brief review of the literature attent on a called to the more generally accepted conceptions of peritoneal absorption

In experiments on rabbits and dogs performed by the author the animals were catheterized phenol sulphonephthalein was injected intraperitoneally and the urine then tested for the first appearance of the dye Under properly controlled condit ons the rate of ab orntion of the die was determined in normal animals in the e with mechanical peritoni tis and in those i ith bacterial peritonitis

These experiments on rabbits and dogs showed that phenol ulphonephth lein is absorbed at essen tially the same rate from the normal and from the inflamed perstoneum in both mechanical and bac terral peritonitis. However in an adhesi e type of nerit futis which greatly lesse ed the pe itoneal area the rate seemed to be slightly retarded

It was further concluded that the presence of hypertonic solution of sugar in the peritoneum d d not retard the absorpt on of dye in spite of the fact that such solutions absorb fluid and increase their own volume while they are in the peritoneal casity

GASTRO INTESTINAL TRACT

IV A C The Newer Physi logy of ti Gastro Intestinal Tract 4m J W 5 1927 cl ti 453

The author reviews the known causes and the mechanism of the gastrie and pancreatic secretory re non e to the ingest n of food and briefly summarizes

recent advances in the field of gastro enterology Gastric secretion may be divided into three phases viz the cephal c phase the gastr c phase and the intest nal phase It is well established that the sight taste and smell of fo d in the presence of appetite cause the se ret on of gastric juice. The ner us impul es are carried to the stomach by way of the

sagt In experimental stud es it wa found that mech n ical distention by means of a rubbe balloon placed in the pouch of the entire st mach cau ed secretion of the gastric glands after from h e to fifteen minutes. Meat ju ce or meat applied d ectly to the

gastr c mucosa al o caused secretion The i to tinal phase of gastric sec etion s da to chemical sub tances in the food art ing from intes tin I d gestion and possibly from bacte ial a tion in the bowel

Undoubtedly sever I mechanism are conterned in the secretion of gaste juice. They i clude

(1) the secretory nerve (2) int ease blood fl and (3, humoral as rts

The pan reatic secretory e ponset a me 1 an be d vided into a cephalic and intesti al phase the e s no gastne prase

and importance in relation to the surgical proph) laxis and surgical therapeutics of cancer and ulcer Yours II Kan M D

MacCarty W C Chronic Ulcer and Carcinoma of the Stomach An J M S 1927 cl u 466

This article wa written to corre t widespread misunderstanding of the author's conclusions arising from the improper interpretation of the statements made in previous articles by him. Quotations from the previous publications are used in part

In this report of a pathological study of 967 gastric ulcers and 1 353 gastric carcinomata removed surgically at the Mayo Clime to date the author makes the following generalizations

 Single and multiple chronic ulcerations of the stomach occur

2 Of the multiple chronic ulcerations one may be carcinomatous and the rest simple

3 Chronic theres whether simple or carcinom atoms wan ferally in size shape and form As a rule most chronic gastric ulcers larger than 2.5 cm also show exactionas. In an artiler sense recited in croscopic extaniations indicated that of all the malignant cases examined from 60 to per cent pave evidence of has ng developed in the minuous membrane border of the chronic simple ulcers. No statement of the number of ulcers becoming exercionations is considered nossible.

4 The smallest gastric carcinomafa have been seen in the borders of simple chronic ulcers and not in the base. Whenever carcinoma has been found in the base it has always been found in the borders (mucosa). The revers is not always the case.

s In fresh unfreed to sue the cell of the gastine gland tibules in the borders of ulverstave lessons sometimes appear normal In other ulcerat we lesson a sometimes appear normal In other ulcerat we lesson to cells are so. Bleen more granular and indisting mushable structurally from the mal grant cell, but are found only within the lumen of the gland. Dese latter are not considered malagnant but are under uses come and ulcers showing this sty of cell to be widely excised. Only when the cells of the gastine plands have left the lumen of the pland and part invaded the sur ounding tissue ar the considered malagnant.

6 The relative frequency of resected car isoma, to rescribed or excised choice ukeer has changed as a result of the fact that surgeons and climicians of expenseor are convinced of th impo shirt of different at g early cartinoma from simple gastine use to vide the contract means including remetenoscopy. This is leading to more frequent exploration of gastine lesson to diagnosis with the result that when fit is each cartinomata are smaller and more amenable to surgery than in the past.

Ma son J C and Simon II E Multiple Perforated Gast ic Ulce a Case Report and Review of the Literature M 1 M d 192 x 89

The occurrence of a single perforation from gas tric ulcer is not uncommon but the association of

two or more such perforations is unusual. In a textex of the interature thirty two authentic cases were found. The authors report a case from the Majo Climic. The patient was a boy 18 years of age. At operation to a symmetri ally placed perforations were found on opposite walls of the stomach Closure of these perforations was followed by

recovery
In two of the cases reported in the literature there
were more than two perforations. Seventy two per
cent of the patients vere under the age of 30 years

and 76 per cent were females

The as mptoms resulting from multiple perfora tona do not differ from those of a single perforation. The treatment is always surgical. It is essential that both of the perforations be found and closed. In eighten of the cases reported there had been an adominal exploration but in only four were both perforations closed. The Mayo Chinic case was though one in which the perforations were situated on opposite walls of the stomach and were both found and closed.

Multiple perforations may occur in a single ulcer in two unrelated ulcers or in two symmetrically placed ulcers. The last type is the most common

Lewisohn R and Ginzburg L The Relation of Postoperative Achiorhydria to tl e Cure of Gas tric and Duodenal Ulcers S rg Gyn & Obst 19 7 sli 344

At the present time there 1 increasing agreement among surgeons that gastric ulcers should be re moved by excision with or without an added gastro enterostomy or by partial gastrectomy but the generally preferred method of operative treatment for duodenal ulcer is still gastro enterostomy

A review made by the authors of the cases of pyloric and duodenal ulcer in which gastro enteros tomy was performed in the period from 1915 to 1920 on the surgical service of Berg in the Mt. Sinai Hospital New York showed that only 50 per cent of the fatients were cured and that 34 per cent developed a gastrojejunal ulcer the most serious complication following gastro enterostomy ir cidence of gastrojejunal ulcer is much higher than the incidence usually reported but in the authors opinion it is not fair to include in the statistics only the cases which came to re-operation as has been done by various surgeous To do so gives an erro neous impression of the frequency of the lesion. The authors believe that 5 per cent the incidence of gastrojejunal ulcer usually given in the literature is much too low

Since the substitution of partial or subtotal gas trectomy for gastro-enterostomy in the surgical treatment of duodenal ulcers in the authors cases

the percenting of cures has been raise i from 50 to 90. The excellence of the results following partial or subbotal gastrectomy seems to be due to the estab lishment in most cases of an immediate and permanent achiorhydria. No medical procedure can establish permanent achiorhydria for as soon as

the Rehluss te t failed to secrete gastric jul e after the injection of histamine. However in six of twenty-one cases the dia nosis of achylia was dis

carded following repeated fractional tests

Or linary fractional gratue and a stella ling coner for feature for any feet from the sand intrations as probably a safe method of disposing achiba in most care it as frequently repeated but no size cases act for easy me will not be it unit; the cases act for easy me will not be it unit; the histories of the form of the contraction of the distance of the contraction of th

In case of profile of the profile of

The authors ha e found histamine sale and regar i it a of it tinct value in the differentiate of between a bylia and achlorhyd in r hypochlor hidri Hone er they lo not believe that the intection I he tamine with or without a water meal is in any way comparable to the fractional eastric analysis a a general test f r gastric functi n They ag ee with Reblu s that the fractional method siel is informati n as to gastric work an I that a lef nite lord must be impo el upon the st much in on er to judge its a) lity to perform its fun tion 15 the normal physiological load is food fool must be used in or ler t of tain the maximum information concerning the secretors an imotor function incases of I w gastric set hty the or heary fr ctional Ras tric anely is with the h stamme ga tric anth it w yield more information than either procedure lone ARTHU I 5 SE FLER 31 ()

Punnett C A Castroduodenal Ulcerati n
L 7 0 7 1 99

In a cs of gastric and luo lenst alceration aur gery in news is when advertil ultime conditions strated by X is examination when sericus him orthige has occurred and when the pall rais obstructed. In all there cases medical treatment abuild be given a trait for

lar graftic vicers the author prefers a reserts n of some type. When resection n ull be associated with too g at risk or is techni ally impossible be performs a ga treenterostomy.

Pannett prefers tes et on also for luo lenil ul er fut pe f ems a gastro-ente tonis il ses visicon f the callous ma s nould be dificult i th ut; juring the pan resine or bile du its or an ul er on the anterjor wall jould render duodene i my too dange ous

In fo ty seven gistric resect ons there were nine deaths a mortal to of 4 25 per cent. Of twenty

patients treated by gastue re ection at least eighteen months ago sixteen (18 per cent) are now entirely nell

In thirts three cases in which partial duodence tomy was d ne there were two deaths a mortality of 4 per cent. Of twe ty-one patients so treated 85 per cent are now entirely well

Of nine patients treated by gastro enterostomy di ring the same period of time only 55 per cent are non entirely well Jun 13 Seziu MD

Steinberg M F Stomach Mucoca in Ulcer and in Carcinoma Ill t Indical Studies 1 h 5 f 19 7 m 97

Steinberg calls siteate a to the lact that the stomach has to ports the pars ligistoria and the first elevation with its the largest proximal part of the stomach in ker only tonic tonitizet in and is lined by lund a glun lis which are frequently hypertrophic (tat minimed onate). The fund using a list is ever are resistant to

dis a c. Through the pars exestors or di tal part 13 s the active pert taltic wanes which propel the 1 soil at the duodenum. The part is live 1 by 1 s to dufferent it democras which is not a serie tain 1 s to the mucros of the fun lus glands on 1 is most frequently subject to the same software of gazintis. If it is 2 o to this part of the stoma h that ulcers and cancer are found.

The he tological examination of twelve stomaths reserved for under of the doctorum or uter of the store whe as of eight stomachs reserved if case real red veloces of gratient in the mucosa of all. This form of gastient in characterized by all is for intentine the mucosa areas I dark state of earthering memors areas I dark state of earthering the mucosa process and the state of th

The changes are limited chiefly to the dust 1 pt of the stomach in the area of distribution 1 the principal distribution 1 the principal distribution 1 the principal distribution 1 the principal distribution 1 the months of the distribution 1 the distribution

The c tience of gastr is was more poon a classecim as sected for cancer. Gastnist where and cancer are found most frequently in the seca. I distribut no of the p lone gland. The rea of distribution of the fundus plands is seld in the site of distribution. The fundus fixed are more different ted and more resistant to path logical change the the plants given gland.

The I mustion of the various gastr c di ea es to the distal part of the storach in the area of is tribution of the pyloric glands should be of interest Stenbuck J B Causes of Death Following Opera tion for Le forated Gastric and Duodenal 3 rg 19 7 lxt v 713

It is the general impression that the important fa tors determ ning the outcome of the perforation of a gastric or luodenal ulcer are first the length of time claps ng bet een the rupture of the ulcer and operative interference secon1 the proximity of the time of perforation to the ingestion of food an I the degree of soding of the peritoneal cavity and third the rapidity with which the operation is performed

The author lists as other factors of considerable importance the patient's age the type of operative procedure (whether simple closure or closure with the addition of gastro enterostomy) the repair on the part of the omentum the size of the perforation the amount of gastric and luodenal contents spilled the presence or absence of organic disease (chronic cardiovascular renal or pulmonary lisease) and alcoholism

This report is ba ed upon a study of eighty eight cases observed and operated upon at the Mt Sinat

Ho pital \cw \ork

Death occurring within three days after the operation are due almost ent rely to shock. Of the sixteen patients who died of shock thelve here 50 years of age or older Patients with shock do not recuperate from the one ation and are desperately s ck until death

Latients dying from general zed peritonitis re ove from the operation and operative shock and seem to be p ogressing well for several days before the appearance of the signs of peritonitis Ligally the younger patients succumb to the condition. In the cases revie ed only two of the seven patients dving from peritoritis i ere over 50 years of age

Subphrenic or liver abscess is another condition th t may cause death. In the author's opinion most subphrenic abscesses are liver abscesses that ha e perforated. Liver abscess may be cauled by infe ton carried by the portal vein or by direct extension of due to suppurative cholanceits. In the cases reviewed there were only two deaths from this con lition

In the total number of eighty -e ght ca es reviewed th e were twenty seven deaths a mortality of 31 per cent ION' I MALONEY M.D.

B Ifou D C and Hender on F F Ben an Tumo sof the Stom ch 1 3 g 19 7 lxx.

The authors review a series of fifty-eight case of benign tum r of the stomach which have come to operate n at the Mayo Clinic up to the present time Thirty five of the patients ve e males The aver e ge w s 46 years the youngest patient was 8 years old an I the oldest 69 ve rs 5 ats nine per cent of the tumors were in the pyloru 26 per cent in the bo is of the tomach and 5 per cent in the cardia

The tumors varied in size from 5 mm to one weighing 1 000 gm a dermoid cyst filling the lesser

In forty five of the fifty eight peritoncal cavity cases the tumor were single and in thirteen including the four cases of polyposis they were multiple. Malignant degeneration was found in only two of the tumors one a polyp and the other a nedunculated adenoma Ulceration could be demon strated in 17 per cent

The most frequent and the mo t important sign of benign tumor of the stomach was anamia This was usually of the secondary type but in some long standing case it had progressed to a point suggestive of the primary type. In a number of cases cross hamorrhage resulted in acute secondary anamia Pyloric obstruction usually intermittent occurred in 10 per cent of the cases The tumors were usually attached to the posterior wall and either because of a long pedicle or a redundant mucosa could be invarinated through the pyloric orifice. A careful consideration of the type of indigestion found in these cases did not reveal any group of signs and symptoms on which a diagnosi of benign tumor could be made

The only physical findings suggestive of benign tumor occurred in cases in which the tumor wis large enough to be palpated. This wa possible in only eight but in none of these was a clinical diag. nosis of benign tumor made independently of the roentgenological examination The differential diagnosis was dependent almost entirely on fluoros coric examination Seventy five per cent of the patients had been examined with the roentgen ray In o 6 per cent of these the roenteenogram revealed the lesion an 1 in 48 per cent the lesion was reported to be a benign t mor

In six case of fibro adenomatous polyps in which there yas no associated disea e the chief sign was In five the anamia was marked the anamia hamoglobin in one case being reduced to 32 per cent and the erythrocy te count to I 480 000 The blood findings in three of the cases were suggestive of permicious anamia. In one case the color index was 1+ the hand and feet were numb and a diag nosis of early combine I sclerosis was made Fol lowing the removal of multiple polyp in this case the symptoms disappeared and the blood findings improved

In all six of the cases of polyps uncomplicated by othe disease no free hydrochlone acid was found This was additional confusing evidence particularly in the differentiation of permitious anamia gastric carcinoma and benign tumor In five of the s x case the polyps vere pedunculated. One polyp which was near the pylorus had become invaginated 7 s cm into the duodenum Another was shown to have und rgone malignant degeneration. In five of the it cases in which animia was associated with the polyps a pre operative diagno is was made from the roentgenogram In one cale the roentgenogram was negative and then the polyp was excised it measured only 11 by 8 mm

One patient who had an adenoma of the stomach also showed a severe degree of anamia and had been

medical treatment is storged the previous acid

values are re-established

The difference in the relucts n I nerl values ! ! lowing tes cit n of the tomach a compared with gastro entero tomy with or without are on of the ulcer was most striking Acht the Iria was frun I in 7 per cent of the cases of parti ! r subtot il sas trectomy but in only 3 per cent I those of Listro

erterostoms

The scillar facing glan it are situated in the fur 's and the be to ofth atomach but theh tmore s hich acts stes if eve glan to is pr tuce I in the an trum The destruction of the h em a explains the m she i is, in she acid to I limie pretest gre trectum (complete the ce of feet by rockline trectom act I in the g tric cor ents does not s em to inter fere with tealth Ternici to anamia devel pe 200 een tto parti t raubto alga trector a f reastric or fur fen I ulcer has never been observed. In ach it is his free by drochlone a it is absent while in achilia gastrica i th free and combine I fade thi tie act fare at ent In the cases reviewe il's the auth is go til I ements were pre ent an nor int quantite in 15 per cent abrent in 35 per cent a d

1 erease) in so per cert In a restor sul total go trectoms it is ads; at le to sem etheral rus and alk ut so em of the lesser curvature Achi the Iria I flows suft tal pa tree form f r ga tric al er nore co stanth than it ful I street in us for I aleral piece Said all this es due to the fact that in gastric affect the line of resects a mit the curry thigh us in or fer to escape inflummatory to be an I woute a safe of ure of the upper en lof the ston ach while it luo lena weer a greaters ruon of the st mach wants be left The Rell ach II metha it we fexclust els because in this procedure il e line of anastomo i f es nut have to be my le so sear the rai rus and theref re a suffici nt am unt of the stomach is removed to insure achier hy fria

sim le pilirectoms I es not produce achiar Is to a l'al rect mize ! attents are subject to go tr je un I ulcers ju t as frequently as th e treated by La tro-enter storny ta trojejural weer f s never then the erved in a patt ne with complete

at ne I free hydrochloric ati 1 I creal r ubtotal ga trectomy has been n or to be th auth is as the routin surgical leestm at of g the and fuotenal wier fee u e in a farge per centinge of ca es the m re conservati e surmeal measures such as ga tro-enterostomy and pel rec toms do n t reo luce sail factory end result

type I GL r L WD

Loesenh et A S and Cr d II I A Carle note in the Treatment of the f the Ilyperacidity Syndrime and in Castelle and Du identi Ulcer 1 1m 1 1 1 1 1 1 1

release the pain corum als experi a el in gistri r duo lenal ulcer an l t 3 rom te bed ng 1 the ul er alkal es are used. The le I anticld is

insol ile non-pritating to the stomach and intestines an I neutral in aqueous u pension but capable of nestralizing acri It does not unduly alter the acribase equilinum of the body a d then taken in any reasonable amount it will not alkal ze the urine ath the attentant danger of cut tating pho phates in crystalline form in the kidney or ureter It a ll not cause diarrhera or con stitio o any serious alteration of the mi eral metaliol m

The authors hous the mot commonly use! alkal es & from brearly nate is while a water ar i irritating in high concentrations. It is absorbed when taken in excess at 1 pr luces alkalo is 31 alkal ses the urine and occasionally cau es the p e cipitati n of phosphates it crystalline f rm in the un e in the pelor of the kiln v the preter o the blalder I rom the point of year I pr ling brebel of the pain I ulcer it is cert i ly n t the rug li the ga tri contents soon return to the previo s level with a return of the prin

Ms exum had on ie and carbonate have the at areage over so burn breatbonnte of lo solu 1 / ts 16 or great less hantage is their critical ng effe t on the intesti e and th ir conseq ent cathar tic act on Irm at il ty of the c lon is very common Is a sourced with ulcer and it is difficult to deter

mine his much of the 1 comfort is lie to the st much and h a mu h to the colon

Bismith subcarbonate and bismuth sub ait ate are not area is Tier are merely in re insoluble pond to Of the t the alearbonate s the rug ul ci ce be aute in its use il re n dang r f nitrite formation with a por Lie d lete ou acti n These druct are sometimes use) to protect al air) suri ices

Cal im carbonate Imini tere I alone s the lead anta of fac the foll ing read a like supe 1 1 in water it is neutral in rea ton It is theref re onl potential alkali but it i utralizes the go & & e climeble fe anl rhon do le iega a alm stud letim Il nesc

taken it p ses out : the faces It apparent h s need con the actions of the to I repr that f taken n exce- it increa es the bulk of the st of Who taken in excess t will coat o e ul crate! areas and in the manner mas protect trest a ca from the action I rtants The authors have fere nuned that I gm of co it I artionate will neut al te the average basal secrets a fo se en lu ur neutralize the ma mum ba al se retion f r one

hour and forty min tes to alle not even for the ue f lum a be at in the g inc hep his syndeone and in ga tri and lu teral ul er is that it au es mi imal h turtance I the acid by a equilibrium of the boly ni of the miners meta w H wel in the f rm of c mpres ed talif t that integrate re bly and ontain a very s all am it

facarmi tive su has it of innamon 1 OBS (ROE MD tion vithout general anasthesia. When the latter become necessary it need not be deep or pro-longed Lavage is carried out preliminary to the operation and about half an hour before 4 gr of morphine and 1/150 gr of atropine are given Exploration can then be sati factorily carried out and if resection is found possible an ethylene oxygen ether combination may be admini tered In some respects the is the safest anasthetic for such

A thorough exploration should be made particu larly of the pelvic peritoneum and liver Usually examination of the stomach and the adjacent lymph nodes promptly reveals whether or not resection is advi able It cannot be too frequently emphasized that fixation of the tumor and extensive enlarge m at of the lymph nodes do not neces arily mean that the di case 1 inoperable or incurable such conditions may be due to inflammatory processes In fact some of the most striking cures have been obtained in this type of case Although operations for extensive and incurable cancer are to be decried it is probable that until better methods of surgery are devi ed for the cure of cancer unreasonable attempts to remove the growth will be made in advanced ca es simply because removal offers the only poss ble chance of cure Resection of the growth is occasionally permi sible for palliation only that hen it is known that metastasi exists. Some times extremely large tumors which from every point of view appear to be irremovable are found to be suitable for te ction and their removal re sults in a cure This is true particularly of the colloid type of cancer in which the disease is sharply demarcated If resection appears to be indicated the details of the operation are carried out accord ing to arious methods

The author describes the technique of partial gastrectomy parts ularly extensive resection in which gastro intestinal continuity is restored by end to side gastrojejunostomy with entero anas tomo is

During 1926 partial gastrectomy was performed 120 times in the Mayo Clinic for malignant di case of the stomach. There were nine deaths a mor tality rate of 7 5 per cent

Macle n N J Some Problems in Intest nal S rge y J L 11 97 17 17

Maclean states that no revolutionary chan ehave been made in abdominal su gery since the days of Lister Multiple stage resection of the intestines was advocated by Smith in 1897. The two stage cole tomy for carcinoma of the sigmoid as popularized by Mikul cz

Many pathological lesions call for resection of the large or small bowel Associated with these lesions there is an obstruction of varying degree Resection of the intestine is followed by temporary ileu at the site of anastomosis. These conditions have a d rect influence upon the surgical prognosis Intes tinal cases may be grouped as follows

A Acute obstructive lesions

s Small bowel (1) kinks and strangulations relatively common neoplasms relatively

a Large bowel (a) twists and strangulations relatively rare (b) neoplasms relatively common

B Chronic obstructive lesions

1 Small bowel relatively rare Large bowel relatively common

C Non obstructive lesions

small bowel (a) ulcerations perforations (b) early neopla ms 2 Large bowel (a) ulcerations perforations

etc (b) neoplasms in early stages

The early stages of acute intestinal obstruction from mechanical causes demand immediate lapa rotomy Between the early and the late stages the problem becomes more involved. The distended intestine should be drained by a glass tube or an enterostomy should be performed to eliminate the gas and toxic material. In all except very early cases an enterostomy should be done in addition to the use of other m as ares to rel eve the obstruc tion. In the late stages of obstruction in either the large or the small bowel dramage proximal to the ob tructing lesion i essential Occasionally exploration may be delayed until the distention has been relieved

Late obstruction of the small bowel should be relieved by enterostomy under local anasthesis through a muscle splitting incision high on the left side (jejunostomy) Obstruction in the right colon

is best relieved by ileastomy

Cancer is the surgical problem of the colon. In nine of every ten cases of colonic obstruction the condition is due to carcinoma. In the treatment of obstructive growths of the colon drainage pre-I ms ary to resection is a fundamental principle A debatable point in the surgery of the colon is the advisability of performing the operation in one or two stages The author believes that a two stage operation gives the best prognosi as it is associated with less shock than immediate resection prevents soiling of the peritoneum chiminates the possibility of a leak with resulting peritorities affords early drainage of the proximal bowel and has a lower mortality IOUN W NURSE TD

Coleman E P The Use of Hypertonic Saline Solution in Acute Intestinal Obstruct on J A M iss 927 Ixxx 1

Coleman reports upon thirty eight cases of scute intestinal obstruction seen by him in a period of six vears beginning January 1921-twenty cases in the first three years and eighteen in the second three years In December 1023 Coleman heard Orr read a paper on experimental intestinal obstruc tion in the dog Orr corel ded that the fall in blood chlorides which generally occurs in this condition is closely associated with the toxamia which is the cause of death and that the use of hypertome

n ctho i

treated for pernicious anamia All to leximitation at the Clinic have t the hemoglobin to be 27 per cent and the erythroc to count 3 0%0 000 live of the group of myomata fil romata ands milar tun ra were re pon it le for varying degrees f obstructi in an i one which was sem in diameter bad hermate ! through into the duodenum for a di tance of 12 5 em producing an intususception O e tumor which was g em in diameter was also pe funculate i an ! Is i hermiste i through the pylorus One which was uni) 1 5 cm in d'arreter produced almost complete ob truction The outstan l ng features of the groun of four hamang omats were the presi us occur rence of melana in three cases and of severe hama temes in one One case of polypo : was associated with glossitis and had been hisgon tas pern jous anemis at the Clinic nine months bel re polyperis was diagnosed In three of the four cases in this group there was absence of free hydrochlori acri In two of the cas a nearly the entire area of the stomach was insol ed. One dermond eyes weigling 1 000 gm was remove I with a portion of the pes tenor wall file stomach

In the five other is a fle g tunner of the stomach canonicred at operatin in the ium restorated in the stomach canonicred at operatin in the ium removed in fifts seven and explorate in all news acture lout in one case a case of pleps us havelsing the whole stomach. The situation of the tunner intermined the heart method of approach. The pro-clure used most frequently was tran gastine even in through an infrituous left existence will and even in the possibility of the autentum will not larger tunners the possibility to mode ratin expense to make part of genera too male part of genera too.

In the cases of uncumitated being turn is there was no operative most ally line access in the he primary condition was carcisoma of the stomach death from Ironchopneumonia occurred six days after the operation

More A B Lest n Roentgenologically Simulat

curets region to Justs a cell known cause of defects along the greater currenture. In such uses on mass can be felt and the tran p rent ke por foor ell wis ble. Delo mit of the stomach caused by pressure against the spine is deceptive if it shagmous in attempted on the basis of limits. Some more than the contract of the stomach may detort the stomach may detort the stomach Dephagmant therms of the stomach may produce hour glass.

deformity a mulating that of cancer. Gastro paim glacerised anniving simulants. When gistry paim is su jected a set in learningshows to differ made after the a liministration of bella formation full effect. I attract the timent rate in of bella formation full effect.

Figure 2. The state of the stat

Hallour D C The Technique of Partial G streetomy for Cancer of the Stomach S g Gy & Old 1977 h 657

The author dicusses the various types of partial garderectomy for unner of the atemath. These procedures are of two types one which is usually called a modification of the Billmoth I method and the other a modification. I the Billmoth I

The safety of operats of respect depends partly on the selection f the p tients for operation but a s act in based on operate e risk will not accomh h the greatest good for the gr stest number The fundamental princi le in the surgical treatment of enner of the at much is that every pati nt is entit! I to an explor t n unit the disease can be pro el incurable oth rap This means that unless metasias s can be dem in trate for unless the flugrosome or eak such definite involvement of the car is that both the espenenced mentrenol cut ar I the clin ci n realize that the lesion is irremov able exploration shuld be carried out servance of such a principle freq enth results in resection of the growth when the rationt is in extremely serious con lition

The safety of partial gastre tomy it rance to the st mach does not it pend alone on them not in thich the operations a performed. Since my not he pritters are poor surgical raish one offer should be spared to get their in the best possible con this it experation. Such a proper is discase does not permit produced efforts to improve the general conditions the most grainform of the production of the producti

Pats mis sith retent on hould be sent to a hos it all ard to ret by 11 age of the stormach and the adm as ration of fluids until th debnd atton has been compressed: In this siture, extraor duty impro-ement has been compressed to the situation of the stormach and the mort lity has been definited; I wered it is possibly that the stormach with the stormach with the stormach of the stormach with the stormach

Regional block a risthes a of the abdominal wall induced as a routi e procedure will permit the performance of a considerable part of the opera the mesentery at the site of the torsion and to the fact that adhesion of the small intestine at this point has been frequently observed morety of the Mikulicz operation over immediate anastomosis especially for volvulus is emphasized ALBERT F DE GROAT M D

kantor J L Colon Studies Ti The Roenteen Diagnosis of Colitis (The Irritable Colon) 4m JR 10 01 727 xvii 4

Crane A W A Roentgenological Sign of Mucous

Colltis Am J Roe tet 1 1927 x 1 4 6

Kanton uses the term colitis to describe abnormal irritability of the colon. This may have an organic basis such as infection and ulceration or may be a purely transient functional phenomenon During rocatgen ray examination it is readily recognized an I when it is limited its location become apparent immediately

If possible the colon should be studied following both a harrum meal and a barrum enema. More information is obtained with the barium meal than with the enema The nine hour observation period is best. Change are noted in both the motor function and the form of the colon. The characters tic effect on the motor mechanism is to hasten the time of transit of the colonic contents. Usually the barrum reaches the spleme flexure in six hours and the rectum in nine hours. In twenty four hours the colon is empty Another fairly constant finding is stasis in the terminal ileum due to spasm of the ileo

cæcal sphincter The haustra become irregular in size shape and spacin or may disappear entirely Localized areas of irritability may produce thin streaks broader bands (feathering) or even pseudo-filling defects The pre ence of gas and mucus is also of diagnostic value With the enema the most dependable are very rapid filing a narrow lumen with deep

cutting haustration and the discomfort caused by a small enema

CRANE points out that mucous colitis while manifesting itself in the colon is primarily a disease of the nervous system. Its importance lies in the fact that it is a cause of abdominal pain. As a cause of abdominal pain it ranks fifth after (1) the dys peps as (2) peptic ulcer (3) chronic appendicitis

an 1 (4) gall stones In many of his cases of mucous colitis Crane has noted a long slender opaque cord usually in the left colon To this he has given the name string ign It has been most frequently noted twenty four hours after the ingestion of the barium A string connect ing two parts of a normally filled colon may be con sidered diagnostic if the portion of the colon occupied by the string can be shown at some other time to have a normal contour a 1 caliber This sign seems to be a prod ct of three factors (1) the peculiar mucoid material of mucous colitis (2) spasticity of a considerable portion of the colon and (3) some sort of peristaltic effort which gives length and thinness to the string CHARLES II HEACOCK MID

Jones D F Carcinoma of the Rectum J Mis 10 St to M 155 1927 EXIV 179

About 12 per cent of all carcinomata occur in the intestinal tract and of intestinal carcinomata or per cent occur in the rectum Improvement in the results of treatment depends upon early recog nition of the condition and early operation The author believes that many of the symptoms of rectal cancer mentioned in the textbooks are far advanced symptoms The only early signs are a change in the normal bowel habit and the presence of blood in the stools Hamorrhoids polypi fis sures and ul erative colitis must be ruled out

Cancer of the rectum occurs most often between the fiftieth and sixtieth years of age but of ora patients with this condition three were under 18 years of age and thirty two were under 30 years

Weight loss pencil or ribbon haped stools and alternating periods of constipation and diarrhoea are usually late symptoms and have little value in th diagno s

Blood in the stool or a change in the patient s howel habit or sensations should always lead to a digital and proctoscopic examination. These procedures will establish the diagnosis of rectal cancer In I ray examination is unnecessary

Viles work on the lymphatic involvement in cancer of the rectum determined the type of opera tion best suited for the removal of cancer of the rectum anatomically The abdominoperineal operation is anatomically ideal It is performed usually in two stages and permits removal of the higher growths For the poor risk the author employs the two stage operation of Lockhart Mummery In most of the difficult operations a permanent colostomy is necessary This is often a great inconvenience to all concerned especially the patient Restoration of the continuity of the bowel is a poor operation and is invariably followed by early recurrence. A colos tomy gives the best possible chance for life and a The attention given by the permanent cure patient to the condition of his bowels is far more important than any type of special colostomy Radium treatment has proved very disappointing in cancer of the rectum

The author compares his results in a series of 178 combined abdominoperineal operations with the e of the more recent posterior excision operation of Lockhart Mummery and those obtained in St. Mark's Hospital London In Jones cases the operability was 65 per cent and the mortality 21 per cent the percentage of three year cures (deaths excluded) was 69 and the percentage of five year cures (deaths excluded) 52 per cent

JOHN W NIZEM M D

Brindley G 1 diey G \ The Cautery Excision of the Cance on Rectum South II J 1927 xx, 240 In the Scott and White Ho pital Temple Texas

the use of the cautery has been gradually extended The operation for cancer of the rectum is performed in two stages The first stage is a colostomy with salt solution intravenously or subcutaneously is of great value as it causes the blood chlorides to return to normal and seems also to combat the toyumna

In Coleman & first series of thenty cases which were treated before Orra terport the operative mortality was 50 per cent. In the second series of eighteen cases in which hypertonic was semployed the operative mortality and was employed the operative mortality and the first of the first operative mortality and the first was employed the operative mortality in selfective the first use of hypertone salt solution is effective the first use of hypertone salt solution is effective to 11 per cent of the first was of t

ARTICR L CHREFFLER M D

Wilkle D P D Chronic Duodenai lieus 1m J V Sc 19 7 clxwi 643

Any ahnormality of the mesentery and any factor who allows an undue drag on the mesenter, may lead to duodenal compression. Channe inflammatory bluvus thick; ung of the not of the mesentery tuberculous adentis and progressive or circograde in filtration of the mesenteric pedicle by malignant disea e are causes of chronic duodenal ideus. Whatever the obstructive factor dilutation of the first three parts of the duodenium is the string feature of the condition. The pylorus is almo to the condition of the progression of the condition. The pylorus is almo to the condition of the condition of the stomach or duodenium is also to duodenium.

The symptoms are not clear cut and may be confused with those of other conditions occurring in the ep gastric region. On physical examination the stomach is found to be low ard often dilated and splashing and definite represente fulness may be

visible

Four hours after a barium meal a fairly characteristic roentgen ray picture shows a saucer like residue in the dilated first and third pornions of the diodenum.

Duodenalules as most lable to be confused with a sall bladder condition or gastine or duodenal uleer. In the common type of the condition in which viacoropiosis is the primary came conservative and postural treatment will relieve or cure a consider able number of common type of the condition of

Dilatation of the duodenum may apparently be present without any detectable mechanical obstruction. In such cases the drainage operation is relatively ineffective. In vi completive pers as with sign of duodenal ileus postoperative physical and especially postural treatment is essential for complete and lasting relief. Hermay H. Hunge M. D.

Winkelbauer A Studies on the Pre-enting of Lostoperative Peptic Ulcer (5t len uebe le hu lung des Ulcus p pt cum po toperat vum) i h f ki Ch 1916 cdi 649

A postoperative jejunal ulcer cannot be profit ed merely by acidification of the lower sectives of the intestine. If the hydrochloric acid has anything to do with the genesis of the lesion its rôle must not be overestimated.

The exclusion of the duodenum as its shown in ballioth II method probably carries with it certain dangers which may be explained by the fact that the duodenum is an important regulating center for the secretion of bile and pancreat c puce. The portion of the duodenum lying cauded to the pap line of vaters more resistant to the formation of ulcer whereas in experiments on dogs many exclusion of the duodenum and anastomo is of the ground of the duodenum and anastomo is of the ground of the contraction of the duodenum is used for the anastomosa:

In the development of peptic ulcer of the jejunum the musculature of the intestinal wall is involved. The findings of Kreidl indicate that if this is remo ed no ulcer will result e en un ler con lit or s which would otherwise produce su h a lesion. The app cation of the Kreill method of removi a the musculature has served to a certain stent to explain the role of the musculature. Experiments how that the formation of ulcer may be prevented by the prevention of spasms Efforts must now be directed toward a p actical application of this knowledge—to the inh bition of spasmat the threat ened sites The technique described by kreidl appears to be impract cable in clinic I cases be cause of the different anatom cal relation hips in man but it opens up the prospect of a m thod of RAESCREE (7) ргопые

D Allaines F G and Lecen P Two Cases f Volvulus of the 1 li Colon Treat d by Imme diste Resection (Deu cas de 1 ly du d) pl taté pl récto immed t; B if mets Soc at d k 9 7 lu 357

This is the report of 1 o cases of tip 3 in Nobulis of the again of colon treated by the Shikuli s Paul operation. One patient died of ac te obstru tion of the small bo el three months after closure f the coinstomy and apparent cure. At ope ation for relief of the obstruction it was found that the smill intestive had there me adhe ent to the base of the mesocolon which was the stee of a fibr pl site inflammation. The other patient made an entirely normal recovery.

In the d cussion of the e cases attention is called to the frequency of inflammatory changes in

bilitubi xmia This form of jaun bee; the r ult of the activity of the reticulo-en lothelial cell sy tem—the sple in and kupfier cells of the liver It i therefore e es any to it ingut h two entirels different tipe of jauni e. (r) a jaunifice due to birubin plus bile salts and (2) a jaundice due to birubin alous

The van den Bergh test 1 a means of deter mining which type of jaundide is present. The immediate reaction 1 attributed to bile which has passe I through the poly sonal liver cells and the delayed reaction to bile formed independently of the liver cell. It has been shown that bilturibin is formed by kunfler cells in the liver and the reticular cells of the spiken and not by the hepatic

cell itself

Theoretically, joundice may an e from obstruction of the outlet of the bile capillaries after the changed birmbin has passed through the polygonal cells of the here or it may occur by reason of absorption into the vacular capillaries or lymphatics of the here and into the general circulation of bilimbin that has not passed through the polygonal cells. The former could be the elimination of an altered bir mbin in the bile salts and subsequent absorption inom observation and the latter the ab orption of a nearly other or the polygonal cells. The profession of the proposition of

Beegins see t It seem possible therefore to pred cate two d flerent Lunds of balrub. It appears that there is the possible that the possible that the possible that protone this is removed by an a call time and excreted in the bile. This balrubin us po this of no use to the organ m and represents a waste potent out in the process of excretion for by its concern tation of some shight charge in this chemical charact t t g e the direct reaction of van den Bergoliu The remain again et is evidently a useful product coace ved by the organism and therefore not with drawn from the blood stream by the lie er cells. It or themsity and ordinarily gives the indirect reaction of van den Bergolium and the concentration or the stream of the product of the concentration or of van den Bergolium and the concentration of the stream of the product of the concentration of the stream of the product of the concentration of the stream of the product of the concentration of the stream of the product of the concentration of the stream of the product of the concentration of the stream of the product of the product of the concentration of the stream of the product of the product

The b1 rubin that occurs in frank obstructive jaunch e or in di ease of the liver cells h s a reral thre hold of 1 40 000 whereas the b1 rubin of hemoly t c jaundice has a much higher thre hold of renal el mination and does not appear in the

ur ne as a bilirubinuria

The atensity of jaundice is revealed best by a determinat n of the interior index of the blood serum b the method of Stetten As this 1 a m asure of only the degree of the jaundice it must be c mb ned with van den Bergh a test to deter wine the type of the j undice

The authors h ve found that the cholesterol onte t of the blood is in rea ed in obstructive jaundice hereas it is unchanged in jaundice of the hamolytic type

Acute atarrhal jaundice the jaundice of pneu monia acute articular rheumatism sepsis and

pronounced tous conditions to of a systemic nature and in lines duried and or organic change in the liver cell. I terniciou anemia and icterius neona torium are types of latent hamolist juundice. In complete obstructive jaundice there can be real-sorption of uroblin from the inte time and fien e urobalin does not appear in the urine. When the obstructive is only partial some of the bile is lefuxed into the intestinal tract and the occurrence of any shiph functional disturbance of the liver central time of the intestinal tract and the occurrence of any shiph functional disturbance of the liver central time of the intestinal traction and its sub-equent appearance in the

Chandler L R and Newell R R Cholecystography and Pathological Changes in the Gall Bladder Correlation as Observed in a Study of Fifty Consecutive Cases J 1 / M 133 1927 les 11/1500

The authors review a series of fifty cases in which cholecy stortams were made and operation was per formed. In all there was clinical evidence of

cholect status or stones

Correlation of the operative findings with the cholect storgaphe diagnoss seemed to show that a normal cholectystogram does not nece sanhy mean a normal gall bladder that fadure of the kall bladder to become vi jube after the intravenous administration of the dye may occur when the microsi is nearly normal and gall stones are absent that smoothness or irregularity of the gall bladder shadow does not correlate very well with the absence or percence of gall bladder adhessions and absence or percence of gall bladder adhessions and fatty smalls probably a sign of gall bladder does not correct the correct of gall bladder adhessions.

Jones N. W. and Joyce T. M. Further Remarks on Infection of the Gall Bladder in Relation to Chronic (Perniclous?) Amenda in J. M. Sc 19.7. In 1. 526

In an article written three years ago on infection of the gall bladder in relation to permicious assuma the authors discussed thirteen cases of chrome ansuma with some or all of the characteristics of shopathic progressive anima and with chrome infection of the gall bladder. The purpo e of this report is to summarize the subsequent in tory, of those patients upon whom a cholecy tectionly was performed and to add to the series nine net care they of which have placed in the borderin ne group of permicious animum and four of which are considered cares of three permicious animum.

In all of these cases the typ a blood picture of various grades of chrome perintious anama s was present along with such physical signs as lemon tinuting of the sun weakness glossitis and pares thesia. The diagnoss of grall bidder desee was based upon roentgenoloucal findings and venfied by the pathologist at the time of operation.

An attempt was made to cau e chronic anamia in dog by p oducing a chronic infection of the addominal exploration. A few days later the second operation is performed under transacral block. The cautery is used throughout except for the remote of the sacrum which i done with bone bitting forceps.

The author has use I his method in none cause. It has found that the ope atmon can be performed with ease and dispatch and a surpr singly small amount of hemorrhage. A hose of cleavage seems to be obtained more readily than in other procedures and because of the small amount of harmor hag the field is better visualized. The consequently more accurate dissection makes possible the removal of more extensive growths with less shock, and a of more extensive growths with less shock, and a contract of the proceedings of the proceedings of the procedure between the chief and chief and the percentage of recurrence and increases the percentage of the manactic of the processing o

Castellani A Proritos Ani and Proritos Volvæ of Fungal Origin Vew Ole M & 5 J 9 7 ivax 024

Pruntus of the anus and vulva of fungal origin is a distinct clinical entity of fairly common occur rence. It is caused usually by the fungs of the genus ep dermophyton. This is the some organism which causes the ordinary pruntus inguin his and interd gitalis pedum.

The symptoms are those of a severe pruntus recurring at interval. Inspection of the anoperineal region may reveal nothing at all except signs of scratching but usually on careful examination minute red slightly raised infiltrated pat hes may he seen.

The diagnosis of fungal pruritus an or vulve cannot be made definitely unless the sp dermophy ton or trich phyton fung, are found with the ruicroope Batteria also are pre ent as a rule and no doubt play a part in the production of a secondary dermatit \(\) Less the fung may be present but do not produce a prurius \(\) Abua lant bacterial four may make tive of difficult to solate the typical

The course of the co d tion s chronic Per ods of great improvement and apparent cure may after nate 1 th pe tods of se e e recrudescence Uncomplicated cases are best treate 1 with an

ontment made of sulphur and saltcy he and It is sometimes necessary to dd phenol. In some ca estry sarob in has produced striking results. For chronic cases \ ray treatment is recommended. Cyr. J GLASTI. M. D.

LIVER, GALL BLADDER PANCREAS AND SPLEEN

Carrère J Studes of the Physiop th logy of the BHiary Pas ages (Est dos de fiso pato og a d las vas bli es) Ir h a gest de nf m d f r d g f 1976 u 16

This article is based upon both experimental and clinical tudies of the physiopathology of the bi ary passages and contains three excellent illustr tume. The author concludes that all mentary strundation of the bilary system acts reflexly and that the post of origin if the strund in an include an uncoas. That thes reflexes act directly upon the barry system is best demonstrated by the ville evacuation of the gall blad for mad possible by the use of tetra undophenolphthalen. The effect of these reflexes upon the exerction of ble may be determined also by the use of the duodecal tube

When the same substances are employed in the same dosage uniform reflexes are produced. In the way it has been possible to determine the vesu duar rhythm following the use of a concentrated glucose solution. When substances of different sinds and in different quantities are usef and when they act over a longer period of time there is no thy tim and there may be either e acuation or complete films of the gall bladder depending strately of the substances of th

The author suggests that in the stud of gall bidder function contentrated solutions of girose be employed and the rustomary magnesium subpate solution be described. Term todophenolyhtalein should then be u ed to obtain accurate data on the empty ing time of the gall blacker and the dochean tube employed for the physical chemical and bacteriological study of the bid.

WILLIAM R MEEKER M.D. Head C. G. Killian J. A and Klempe er P.

The Pathog nest of Jau dice S g by b Obst 9 g xh 489

The normal bil subin content of the blood i

The normal bilitabia content of the blood i about a part of bilitab at from 400 000 t 600 000 parts of blood serum. This may be rase it to 1 pa t in 40 000 parts of blood serum befor jo a he

OCCUS

Jaundice may devel p foll wing intrahepat or extrahenatic obstruction of the bilia y p sages degeneration or disfunction of hepatic c li or the excessive production of bil rubin by the retic lo endothel al c'll system part cularly the reticular cel s of the spicen and the Kupffer cells f the 1 er Buliru in may be I rmed by the cells of the reticulo endothelial system without any acti ity up n the part of the h er parenchyma Ble salt h w v r are the specific product of the live parenchyma and the production of bil rubin together with bie salts is a function bruted to the l ver Therefore the presence of ble pigm nts : the tis es a d bo h flute in associat on with bile salts indic tes me han ical obstruction of the b le ducts or disfunction of the liver cells with or without obstru tion As these two types of ja ndice a e e sentially

hep tic forms it foll ws that the pr sente I bill rub n in the tissues and body flu is without the presence of ble salta—a disso iated jaundice—indicates a pure pigmentary acrum lat on a

the gall bladder and ducts after the feeding of a barnum meal. No gross evidence of infection of the liver was seen at necropsy on these animals but in 61 per cent the gall bladder and common ducts showed evidence of infection. The inflammation was usually of a low grade and apparently was not harmfull to the animal Low M LIMPERMY M D

Elman R and McCaughan J M On the Collection of the Entire External Secretion of the Pancreas unde Sterile Conditions and the Fatal Effect of Total Loss of Pancreatic Juice J E pr Med 91, 21x 561

The general objection to all open fistular for the collection of pancreatic juice is the impossibility of obtaining sterile secretions thereby. As infection leads to marked alteration of the properties of paractic juice the authors adapted for the collection of this juice the method of Rous and McMaster for the collection of bill juice sterile conditions.

After dasection of the head of the pancreas from the doudenum a cannula was placed in the severed end of the pancreatic duct and another in the gall bladder. The two cannula were then connected with rubber tubing in which a T was placed so that with the opening or closing of the peticock the pan creatic pure could be either collected in a string beg are called the collected to the collection of the peticock that pan creatic pure could be either collected in a string beg and the collection of t

When obstruction or nection did not occur the secretion continued to flow profusely a d after from five to eght days the animals d ed with marked asthema. The secretion was others slightly opal escent and decidedly all all e a d in quartily seemed to bear no relation to food taking. The prompt resto at on of mo ibund animals to practically normal when the secretion was returned to the duodenum suggests that the pancreatic junce contains a sulfatin e which is necessary to hite.

George 1 Collett M D

Krumbhaar E B The Incidence and Nature of Spleni Neopl sms With a Repo t on Forty Rec nt Cases 1 Cl M d 19 7 833

In 6 500 autops es performed at the I hiladelphia Gene al II spital during the past six years forts neoplasms of the spleen were encountered in a total of 93 primary and 1 234 secondary tumors Of these forty splen neoplasms six were primary and th rty four were secondary (o 64 and 27 per cent re pectively of the total number of primary and sec ndary tumo s) Two of the primary tumors we e benign (angiomata) and four were sarcomata (one a lymph arcoma) Of the thi ty four second ary tum r t 1 e were sar omata ne wa a myeloma and t enty one re ca can mata Of the ec n lay r inomata seven were primary n the be t f e in the stomach three in the pan c eas two 11 tle prostate and one each in the ers phagus appendix hp and penis

The relative rarity of splenic neoplasms is ac counted for in part by the antagonism supposedly

ensing between splenic tissue and tumors. The non infrequent finding in the spleen of tumor cells in sinuses but not as metastases in the pulp and the discovery of circumscribed fibrous modules (fibrosed metastases) in persons with cancer who show no signs of tuberculosis syphilis or the causes of arterial thrombous suggest that the spleen is precludiny antagon into to malignant tumors. The rarrity of splenic metastases has been attributed also to such factors as the least and the support of the splenic artery, and the effect of splenic pull attention to the splenic artery, and the effect of splenic pull attention to the splenic artery, and the effect of splenic pull attention to the splenic artery, and the effect of splenic pull attention to the splenic artery.

In none of the cases reviewed did the splenic neoplasm cause noticeable symptoms Therefore

the condition was not diagnosed or treated
For primary tumors excision is obviously the
proper treatment Not infrequently it has been
followed by an apparent cure For secondary

tumors palliative measures are indicated
STANLEY J SEEGER M D

MISCELLANEOUS

Frase J The Involuntary Nervous System in Relation to Abdominal Disease S rt G3: & Obst 9 7 xhv S9

Di turbances of the hollow abdominal viscera may be due to errors of the involuntary nervous sistem of the organs-affected. The involuntary nervous system is usually divided by the physiologist and anatomist into the sympathetic and the parasym pathetic systems. These to systems present both an anatomical and a physiological difference and the parasym control of the parasym of t

In certain parts of the enteric system a single type of supply either sympathetic or parasym pathetic is provided. The functions of the two divisions are antagonistic but in health the ordinated action of the two types of function is very carefully balanced. This is especially noticeable in the sphincters of the altimetrary tract.

The ecsophagus and carduc portion of the stomach are supplied by the parasympathetic system shile the pyloric half of the stomach is supplied by the syngathetic system. From the pyloric normand as far as the ileocecal region there is a conditioned it tribution of sympathetic and parasympathetic elements. The large intestine up to the pelvic colon has a purely sympathetic and parasympathetic elements. The large intestine up to the pelvic colon has a purely sympathetic distribution. While the rectum has a combined supply. The Joross the ileoceccal juncture and the lower part of the large bowel are the areas where the two types of upply meet or overlap.

There are (ut typ s of derangement of nor mal enters, functions (s) abnormal contraction (spasm) () persistence of contraction (achalasiss) (s) certino of withinton on relaxation (atony) (s) an irregularity of co-ordination between contraction and relaxation (arrhythma). There are certain local muscular hip pertrophies of an obscure origin

biliary tract by means of organisms obtained culturally from the gall bladders and livers of some of the patients but the results—ere negative

The authors believe that there is a definite relationship between infection of the bilary tract and perancious anarmia—not that the former we merely a focus of infection but that there is a special infection operating in a special way from a special site it is not impossible that such an infection may cause anoma through changes in the cholesteric content of the bit.

In cases of definite permissions anamin the clinical symptoms improve for a time following cholecystee tomy, but the peracelous type of the blood does not disappear. In mild cases or those of the borderline grown the improvement is more pronounced and in the of the even case reported has thus far been perma ent. Of all the symptoms the anaman has been far last to disappear. There has be no return been far the subsequent properties and the properties of the horizontal properties. The subsequent properties of the horizontal properties of the horizontal properties of the horizontal properties.

The article | concluded with the following state

I In every case of permicious anamus with which we have personally worked duting the time of this study a chrome infection of the gall bladder has been positively demonst and

2 A small g oup of cases which resembled mild permicious aniemia possessed the same type of bil ary infection and upon its removal the patients were restored to fairly normal health

MARSHALL DAVISON M D

Mueller W Report of a Case of Acute Chole cast t sin a Child & Years of Age (En Beobach t g on k i r Ch l z) t tas h i m 4 j ching n Kinde) Z trail f Ck to b l 3002

Cholecystitis is rare in children. Statistics sho that when it does occur in the child the inflammation is m to often a sociated with stone formation than on. Mucleir reports the case of a boy 4 yet as of an operation of the control of the contro

Laparotomy revealed a vellowish scrous exudate in the abdominal cavity a healthy appendix and a tensely di tended gall bladde. The gall bl ddewas remo ed Its ontents were sterile. H stological examination showed acute suppurstive cholerys this.

Spu ling R G and Whitaker L R End Results
of Cholecystostomy as Shown by the Chole
cyst fram S g to & Obst 9 7 zh 463

In the investi ation reported in this article cholecy stograms were made following the intra-

venous injection of sodium tetra iod phenolphita lein in t elve cases in which the gall bladder had been drained from trenty f e days to mineter personally. In none of the twelse cases was the gall bladder found normal. Four showed a securization of calculi and two a marked thekening the object of the organ last cases not operated upon the cholor of the organ following the ingest other organ following the ingest on of food the organ following the ingest on of food

Experimental work on dogs was do no but authors to determine what part of the pathological process is responsible for alterations in the choice systogram. In five dogs, the gall bladder was opened and curetted. In two of these it was then others it was closed. In a sixth the entire morous membrane was removed by bland dissection and the gall bladder closed. Beginning forty eight hours after the operation choice; storrams were made of all six animals every two or three days for a week or more and all object intervals or a specied of a

month The first shadow was noted four days later and disappeared to a hours after the investion of a meal rich in fat althou h it did not become appreciably smaller during the emptying At necropsy the gall bladder was fourd somewhat shrunk n and the mucous membrane showed fibrosis with mono u clear infiltration of the submucosa. In one case a month elapsed b fore a positive cystogram was obtained and at cholecyst ctomy the gall bladder was found in a mass of adhesions and it wall was between 2 and 1 mm thick In the cases of the two anim is whose gall bladders were drained shadows appeared after the tubes had a oughed on at the end I seven d ss In the case of the animal in which the muco a was removed no positive cystogram as obtained at any time

Slight mechanical injury to the wall of the gall bladder delays the emptying after the ingests n of food. In severe injury can ing fib oss the annibition is marked

The authors conclude that drainage of a discased gall bladder with the expectation that it will regain its normal function is not only futile but endangers the p tient's health Chistin C. A. M.D.

Trautmann, M. Robbin. H. J. and Stews. t. C. C. An Experim ntal Study of the Operation of Cholecy stenter stomy. S. rg. Gymc. S. Obs. 10.7 x 1.6

In a series of dogs subjected to cholecy stogs, toxicom, and cholecy structuressions; the stoma was found patent at least fifteen weeks and in one ase fifty weeks after the operation. In every case, in which the opening was patent food passed into the gall bladder and in several instantion on the cystic deep many control of the cystic deep control with a large stoma bearing was demonstrated re-oragenologically in

GYNECOLOGY

UTERUS

Schauffler G. G. Prolapse of the Female Genetal a

Argument regarding the relative importance of the fibrous as opposed to the voluntary muscular supporting structure of the relvic organs is futile The action of both is constantly interdependent Of the fibrous supports the true lateral ligaments or Colles ligaments are especially important It can be shown by desection that the uterus will be supported in the cadaver if all other supporting structures are destroyed. The true utero sacral ligament are deep condensations of fascia carrying the uterine atte ; as it crosses the ureter The c should not be confused with the folds of serous perstoneum called by this name and used in the surgical correction of retroversion. The term 1 g ament 1 not exactly applicable to the so-called ligaments of the pelvis which are simple condensa tions or thickenings of ensheathing layers of fascia

The bodes of the pubeocrey geal muscles are bound together centrally by histous 17th and have no true mu cultar continuity in the middle free period by is Birous in nature but binds for ethicient action three groups of voluntary muscles. He cet vapoutes us of two fold importance in the re-basins along of the round bigments broad bigments meso-ovarium and meso alpinar consists in their actions a gray popes helping to main ting, the normal active stone. The author calls into the round but calls in the normal active stone.

these secondary supports
The great mechanical advantage of the normal ante eried position consists in the di erasion position to the position of the secondary of the secondary

Us to cele is occasionally due to a demonstrable tea of the vesion-apinal facian but more often to a general zed rela ation. Pressure of the head on the in histed cervit is a frequent cause of this accident while tell err with a distented bladder is also an important factor in its po fuction. Or histary recto che's due to factoration or stretch

i g of the structures of the perineum and of the l er rector g nal septum 1t shild be dis t ngui hed from high rectocele which is due injury to the rectovaginal plate and is unaffe ted by the ordinary type of perineorrhaphy

Palliative treatment is seldom successful but if used should be carefully planned on clearly rational indications. With the advent of local anesthesia and the intelligent use of the vaginal route for operative work the number of advanced iroperable cases should be reduced to a min.mum.

Several operations are discussed including the Wathins the Baldy, the Web ter and the Coffes the attempt in all being to restore as nearly as possible the original anatomical relations. Let incorrhaphy in particular is an attempt to restore the correct anatomical relations. The Wathins-Wertheni interposition operation while not ana like the properties of the properties of the correct The mixty operative failures seen in these cases emphasize the importance of careful study of each case.

Ne ll W Jr The Treatment of Uncontrollable
Adolescent Bleeding with Radium 1 J
R lgr of 1927 von 461

A report is made on thirty cases of exces we men struction in adolescer't patients who had been under careful medical management without being benefited.

The best method of treatment; the ritauterine three espaules of radium in tandem screenedwith arm of brass being employed. When external tradiation must be employed at least half a gramof radium must be available. An incrarge of so commy firs was given with a screen of s rum of brassian and 1 mm of lead at 5 cm distance over each 0 x a nin region and with cross fire over the pelvin.

The control of the menorrhagia is due to direct action on the ovarian follicles as nell as upon the blood vessels of the endometrium

In the sitten case of Group 1 the conductor returned to normal immediately or within a fer months. In this group the patients received as average of §3 me his In the five cases of Group 2 a period of amenorrhean was followed by normal mentitation. In this group he average doasge was 800 me his. In Group 3 permanent amenorrhean testilled. The average doasge on the sit of the group was 712 me his. In three cases treated by external irradiation the patients are clinically we from 312 to teently four months after treatment Radon was useful all cases.

Menstruation may be irregular or absent for many months up to four years and then return to normal No serious impairment of health could be attributed to the radium treatment

Only such cases as do not yield to any form of medical treatment and in which health is seriously threatment by harmorrhage should be subjected to radium therapy Wide experience is necessary apparently neither inflammators or noplastic which affect local segments of the intestinal tract

t, ually in the sphincteric regions

In congenital hypertroph's pulsars attends there is no a tutal obstruction of the plotus and the hyper trophy does not affe t the enroller fibers of the true spin cter. It is po s le that the hypertrophy is the result of constantly recurring over action. The tend or y to, and hypertrophy as the result of repeated forceble contrictions as well marked in moduntary moster. It is symmetric that the shange occurs at a moster. It is symmetric that the shange occurs are supply merges with a rused parasympathetic and symmetric supply.

Hypertrophy of the lower sleum in the sleocacal reg on is similar in pathology and orig n to congenital hypertrophy of the pylorus and like the latte occurs where a pira will these nerve di tribut on

occurs where a para you thetic herve di tribut en I an la sympathetic surply is continued

It is belt well that in congenital hypertry hy of the colon (Histophypung of aces) hypertry hy of the risk lar cost and iditation of the colon canal are the original and primary feature. The condition is simil r to the calready discussed and also occurs in a lituation where a symptothet comes in contact with a parsy mpathetic distribution.

The in the carly months of life there may be highly listinctive deran ement of the amount muscle of the all venture it of which are characterized by hypertrophy but and recream conditions eventually

u de go restoration to normal

While the de tructus efeature of involuntary net of deceng, ment in the city weeks and months of the feeting ment in the city weeks and months of the is focalized hypertrophy detrangements of a later period are charact crat ab ne up er sim of the normal function of the muscular to is the function of pert tall so, consequently during a peri dividentact intensity of the result of an extension of the vari intussity apply to the result of an extension and

misguided peristalsis occur. Under tertain conditions possibly due to some dietetic error a true per staltic ave may ad ance at a very rapid rate This is called the peristalize rush and bevidertly the factor inducing the intussusception 1 lon as inhibition precedes contraction no harm results but when the va e reaches the lover end of the drum an area in which a new type of nerve supply is encountered the preceding pha e of inhibition is not transmitted the result being that the str ng con traction of the peristaltic rush carnes a circular a ca of the gut into the di tal segment as an invagination and the intu susception begins. The peri taltic rush is not followed by intussus eption unless the ileo carcal segment is provided with a loose me erteri attachment While the laxity of the attachment offers a mechanical e planation of the migration there a probably a further tails are which concerns the perve supply of the bonel

The etology and patholy of the d orders of a bult life are not well understood. Spa ms acha last and atomics give rise to symptom; but they selfom leave a path logical of dit on which can be dem. actract at p stmorter a animation. Spasms of the trecum and p lotus may cl sely simulate appendictus and pastric and duodenal disease.

C I GLASPEL VI D

Christoph F S bphr ni Abs e III M

This article reports a co e of subplience abserse folioning approductomy. Dri mage of the abserse the eight the right tenth rib in the ax llary line was a lowed by rectury. The suther re-least hiterature of subplience abserse and cally attent on the control of the control of

M BCL II HOBART ID

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Hermans A G J Simultaneous Intra Uterine
and Extra Uterine I regnancy (Ueber gle) h
t outra und ext aut ri e Schwangerschaft)
d dl Trid cir v Gen sk 1926 ixt 2 97

Herman reports the case of a 49 year o ô para v) Operation for ruptured third pregnancy on the left side in the third month reveiled also an ierta uterine pregnancy. To the hours after the originary of the hours after the originary of the properties of the state of

The author reviews similar cases reported in the I terature to date and emphasizes that the possibility of a jouble pregnancy should always be borne in mind. The safest treatment is immediate abdom and extription of the pregnant tube with utmost con ervation of the over the and corpus luteum.

Shaw W. The Di tribution and S gnificance of Letopic Decidual Cells. J. Obst. & Gyn. c. B. t. Fub. 10.7 XXXI. 48

There a very strong evidence to support the contention that decidual reaction is controlled by the corpu futeum. Apart from the in lings of a fe v isolated experiments of Loeb which can per haps be explained in some other vay there i no evidence to show that decidual production occurs independently of the presence of a corpus luteum in the ovirie Moreover hi tological evid nce supports the view that the corpus Juleum everts its influence by means of a hormone circulating in the blood stream If this by pothesis is correct however the decidual reaction should be spread diffusely through all of the organs of the body whereas there is no reliable evilence to show that decidual cells are found above the diaphraum deci jual reaction is well marked in particular areas such for example as the endometrium in cases of ectoric gestation the pouch of Douglas and endo metriomata and this selective listribution cannot be explained unless som further stimulus is pos tulated

From purely experimental findings Loeb came to a signalar conduct on the therefore suggested that the corpus luteum sensitizes the enlometium for derival production but that there must be an additional stimulation to the form of the fertilized over an additional stimulation to the form of the fertilized over the state of the sta

inflammatory factor the r le of the additional stimulus. That this explanation is unsatisfactory is shown by the occurrence of ectopic decidual cells in situations where no inflammatory changes can be

the function of the decidual cells is by no means clear. It is usually stated that they help in the tourishing of the joint overm but on purely plus indigened ground it is difficult to believe that this is their sole function. It is extremely probable that ectopy. It is impossible to believe that such collections are the produced for some purpose. It is impossible to believe that such collections of cells appresent the producity of the corpus laterim why, six that with extone decadual cells to the stretch of this particular hormone. Again why, six that with extone decadual cells to the necklis not the pouch of Douglas respond cell immediately adjacent in similar anatomical relations are

These considerations favor the conclusion that although the corpus luteum factor is hormonic in its influence only certain cells are capable of treponding to the hormone. It is therefore suggested that the property of decidual reactions in inherent in certain cells which are detived from the subcerlome mesoblast.

This explanation is obviously both primitive and unsati factory and is not in Leeping with the anons of morbid histology But indirectly some evidence in favor of it is offered by the di tribution of endo metriomata. It is clear that there is a very well marked resemblance between the distribution of ectoric decidual cells and endometriomata. In the ovaries and the pelvic lymphatic glands this is so striking that it is difficult to believe there is no rela tion between them Accordingly the question of the etiology of e dometriomata again comes up for consideration Sampson's theory offers no explana tion of the resemblance between the distribution of ectopic decidual cells and endometriomata and those who do not accept his theoretical considera tion or the evidence he advances in support of his theory and who incline rather to the view of Meyer and Schiller cannot express any dissatisfaction On the other hand a parallel is at once evident between the recent views of Schiller and the view expressed in this article E L CORPELL, MD

Oll er Sir T Heart D serse and Pregnancy

Because of increased cardiac output a slight in crease in the size and weight of the heart is noted in pregnancy. The card ac lesion of greatest danger in pregnancy is mitral steposis.

The treatment of a heart condition should be given

during pregnancy parturation and the lying in

before one is justified in using radium in cases of adolescent bleeding.

The question of subsequent pregnancies is discussed

A JAMES LARRIN M D

Dantwisz T Observation for Tlitteen lears of a Radium Radiat d Ca e of Inopecuble Ca cino ma of the Certix (them rhungen zu 13 1 ching n Roob el tung c es rad umb strablien n perablem Gebaermutte laik eb cs) Z d obbl. f. Gyn. k 1026 l. 3027

The case is reported of a woman 53 years of age with a curronoma of the cerus uters which had invaded the sagnal sault. After surgical treat ment which had to be limited to even heaton and cauternation of the cerus; the patient was turned over to Das vitz for radjum treatment. Between they cars 1973 and 1971, 190 rad attors with a total of \$3.00 in mgn his ratium element were given. The details of the method used saucil with the properties of radiation (rehomous).

progress of radiation therangue. To years after the beginning of the treatment the patient felt enturely well and all sups pointed to a clinical cure. Later fresh blood appeared in the stools with hierarchical and distriber radiations were mustuared in the beside the felt conclusions. I all the property of the action and the control of the control o

In 1920 boring pains were felt in the knee joint. Three years later limitation of motion of both hip joints the result probably of arthritis deformand or osteoplastic carcinomatosis appeared and remaine! In 1926 the patient is other ise in the best of health.

Hanvitz conduces external with vagual radation. The injury to the notestine especially that to the sigmoid fixure which mu t have resulted I om the external applications the him to believe that according to recent unchoods uniform rad atom of the small policy in these conform rad atom of the small policy in the conform rad atom the categories and the conformal radiation of the mistage of the mistage when the amount of the mistage of the intestine of the intestine approached that of the tolerane dosage of the mistage.

Wille F. C. Results of Operative Treatment of Cervical Carcinoma in the Charité Gynecological Clinic during the Years 1916 1910 (E. gebrule edge oper ten II had ng ds Col man and Chariff ell kaden Jha ontigo) Zudliff y kagi 15

The article from Franz's clinic reviews the indications for operative treatment of cervical carcinoma and the final results During the years 1916-1920 308 cases of cervical carcinoma were treated by operation 15 5 per cent were incipient cases 8 1 per cent were aimost inoperable. The remaining cases were typical and easily operable. The timuts of operablity were broadly drawn. Only in cases of unvolvement of the bladder.

was the consideration of operation dismissed In 206 cases the Wertheim method was used of these 133 patients or 44 93 per cent are stul auve after 5 years the primary m trabity being 14 18

of the 66 patients operated upon during the last year (1920) 37 or 56 05 per cent are still alice after

the 5 year period of observation.
Only 12 operations after Schauta's method wer performed. These were exclusively instances of not far advanced carcinoma. Eight of the 12 patients thus operated upon vaginally have hired out the 5 year period.

The most favorable final results were obtained in the most favorable final results were obtained in the most favorable favorab

In four of the cases of carcinoma there was a coincidental pregnancy. The cancerous process was treated as soon as the diagnosis was mad without regrid for the fetus. In only one instance in this group was a permanent cure attained. Seventeen of the patients received prel minary

radiation (roentgen radium and roentgen plus radium) treatment Of these 41 per cent have remained alive for the 5 pears

When the patient was more than 65 years of a e oper tive treatment was not considered fourteen patients (47 per cent) had not reached the thirtieth year of life. Aone died as a result of operation. Of the 14 patients 8 were st Il shive after 5 years.

The above results do not indic to that the car cinomatous process is especially mal guant in young nomen

ADNEXAL AND PERSUTERINE CONDITIONS

Dickens F Dodds E G B inknorth D J T
Preparati n and Prope ties of the Ora i n
Blorm ne in a Water Sol ble Form L 1
10 7 M 1 15

Up to the present time of artin hormone has been obtained in the form of an oil assolible in water but soluble in organic solvents A method is described for obtaining the certifus producing hormone in a water soluble form by extriction from the placena. The placena is the placena of the pla

MACNUS P U TES M D

retention and hypertension without them the attacks ca not occur Ther need be no preceding albuminuria nor disturbance of renal function Lelampsia is most apt to develop in primipara more than 35 years of age and occurs most frequently

either shortly before or after deli ery The occurrence of the convulsions during labor is due not to the uterine contractions in them selves but to the emotions pain and bodily ever tion a sociated with the bearing down efforts. The cause of the frequent occurrence of the convul ions after delivery is the sudden ce sation of the placen tal function, which d turbs the already very labile balance of the sick pregnant woman Because of the coma and the admini tration of narcotics labor name are of little or no importance in the occur rence of new attacks On the contrary the attacks mean very strong stimulation of the uterus which begins to contract strongly usually to such an e tent that delivery results. As a rule deli ery occur more quickly under the influence of the attacks than under normal conditions this explain ing why eclampsia usually se ms to occur during narturition

The attacks are injurious to the entire sick organi m and particularly to the central nervous system the kidneys the liver and the heart. The same inju ies may o cur in the di eased pregnant w man in the absence of attacks but under such circumst ces are usually less severe indicates that eclampsia is a special phase of the disease of pregnancy. The duration of the phase is limited t from several hours to t vo or three days after a buch length of time the attacks cease, even

thout treatment. Their ce sation has little or no relation to delivery. Injury to the heart and the langer to life increas with the number of attacks If the kidneys are e pecially injured transient uramia occurs. When this per sits too long it may be fatal after three or four days Severe degenera ti n of the liver hamorrhages and necrosis cause leath more quickly if the condition continues sufficientl long icterus may develop. With an incr ase in the number of attacks the coma be comes deener and there is a great r possibility of the d velopment of a psychosis if the patient sur i es the eclampsia. The attacks are dangerous to

the child a ide from the fact that they favor pre mature by th

is a rule the blood pressure full under the in fluence of an attack and this drop may be a factor in the spentaneou cessation of the attacks Imme lately after an attack there is a d turban e in the regulatio I the blood supply which because of the flood pre ur shows marked variations and a c high pe k. The latter la ts for ally a f w. mn te ind ts the occurrence of a va c n f m f him r h ge such a aport y lor ent g of the placenta etc

lite del er and cessation of the consulsions the blood pre sure usually ri es and about ti o

days liter returns to the pre pregnancy level in from ten to fourteen days. The increase may be partly a reaction to the decrease occurring during the attacks but may be also a manifestation of the injurious influence of the sudden cessation of placental function A similar postpartum increase as well as the appearance or increase of albu minums is noted at o in the cases of sick pregnant women vithout eclampsia

The favorable effect of the remo al of the ovum the primary cause is first manifested after about firty eight hours Therefore because of the short duration of the eclamp is the treatment can be only symptomatic and directed against the attacks and their results. Active therapy should be per formed only on behalf of the child. The intere is of the mother demand that the attacks be sub lued before delivery. For this purpose the be t treat ment 1 protection from all irritation the admin istration of narcotics and venesection. The narco sis and bleeding associated with active treatment have made it appear that delivery has a favorable influence but this is incorrect

Venesection should be performed under control of the pul e and blood pressure If the blood pres

sure fall stimulants must not be withheld too long If the attacks cease early the pregnancy may be permitted to continue In exceptional instanc's all di case manifestations may disappear nearly completely and a living child may be delivered at term As a rule however delivery occurs after a few days usually after the fetus has died. Not rarely symp toms recur a few days later and induction of labor becomes advisable. If during the time the patient has been kept on a salt free diet, there is no danger of nes convul ions Threatening eclamp in requires bed rest water and a salt free diet When there is immediate danger the administration of parcotics and venesection may overcome the threatening symptoms LAMERS (G)

Ti omson C J The Pathology of Fetal Macera tion J Ob t & Gynac B it Emp Q 7 xxxxv 40

The report is base I upon twents seven macerated fetuse of viable age o curring in a series of over 100 cases of stillbirth and neoratal death investigated by the author The article has three sections (1) a brief resume of work already done in this field (2) a description of the macroscopic and microscopic changes occurring in maceration and (3) 4 con sideration of the natu e of maceration

A special effort is made to trace the consecutive chan es occurrirg in each of the important viscera in the three sta es of maceration

The changes v hich the normal fetal tissues under go in the uterus subsequent to somatic death differ markedly according to whether the membranes remain unruptured or not When the membranes remain inta t a peculiar non organi mal form of dissolution takes place

The aseptic softening of the tissues in maceration is of the nature of an autolysis and consists in the period. If the lesion is well compensated and there is no embarrassment of resouration the patient should he kept un fer observation the blood pressure care fully tabulated and diet and everys regulated If at the e d of p goan y the pulse becomes rapid if e ular or feeble the patient should b Lept in

he l and given d gitalt

During the first stage of labor signs of latigue must be vatched for The second stage must be short ne l as much as possible During the puerperium the patient must be kept

in ler careful ob ervation Cardiac patients of the working classes should be

treated in antenatal and postnatal clirics

MAG ST URVES MID

Stander H J Clin cal and Experimental Studies on the Toxemias of Pregnance Am J Obst & 6 6 19 7 12 551 The author sums up the clinical and experimental stidies of the toxemias of pregnancy wh h have

been previously reported from time to time and then discusses the treatment he now uses In the author's cases of mild eclamisia the modified Stroganoff treatment (chl roform and

venesection eliminated) is given as it has been found to reduce the maternal mortality in this group to lelan a per cent. It the seve e type a better method of treatment was preently reeded Standerthereforedres led to attempt prompt delivers under spinal anasthesia. He is not vet in a position hat results will follow this rather radical departure but experimental evidence sems to support the opinion that the maternal and fetal in tall ty will be reduced

A blood analysis is done in every case of erl m; a as soon as the pat ent enters the he pital Th re after or thenever coma persists the t tho dioxide combining por er is dete mined every two bouts. If the carb a doude falls to belov 30 volumes per cent the p tient is given from 15 to to units of insulit with a protective dose of glu case to overcome the acidosis The insulty therany is instituted only to r heve the condition of lowered alkali e erre and does not interfe e with other F I CON TIT ILD steps in the treat nent

Young J Recur nt Pegnancy Toxemia and Its Relation to Pl cental Damag I'd b gh Il J 0 7 x TIV 6

The author has p eviously reported evidence suppo ting the theory that the imm diate cause of the phenomenon o cel mp is is massive damage of the placents Heltheve that the legree of trains depends upon the amount f toxin elabor ted by the 1 integrating 11 suc. He dev I pment of the t ramia r q its safe or time for the forma nal blod stream To's explains h torama is the rule nf rtial detachment (a c dental harmor rhage) whereas it does not a cur a rap d an' complete detachment

The author's investigations were conducted on a se les of 120 u cessis cases of toxamia and acci dental Lemorrhage at the Royal Maternity Hos pital Edinburgh These investigations and cated that in women who develop convulsive or n n convuls ve eclampsia th re is some factor funding to cause placental damage. In p obably the maio ty of cases in which this occurs a rapid terminat on of the pregnancy by ab ition accidental hemorrhage premature birth or stillbirth takes place toxemia being thereby prevented Toxemia occurs only when after placental damage the abortion or pr mature birth does not oc ur soon enough

The factor which ause placental famage may be general or local Infects a eg ci rome metr i and cervicitis focal i fection etc may be indicated by the frequently assoc ated leb de temperature The chemi al nature of the town re ponsi'l i unkno a The author is of the opinion that his tamine is probably a to for as experiments have shown focal damage to the uterus follo ing its

suject on s to the blood at eam

The distriction which has f quently been drawn between eclamptic and non recurrent eclampua nd nephritic or recurr pt eclamp i has be a proved error ous. The e t now considerable evi dence for the view that the eclamptic and nephritic toxamias have a similar origin in the disease I pla cents and that in both types the Lidney damage is secondary and often aggravated by the placen tal damage occurring in successive pregu nete Bri ht s disea e is a complication of only a mail sub gro o of ca es of eclampsia ha ang little in ommon

with the true p egnancy to am a

The author found a re-urrence of toxem a m 21 o po ce t of his cases. He attributes abort on n t r ematur birth to the same normous a fluence If the ca a of abort on and premature brit are added to the cars of recurrence in his seri total incidence of recurrence was 41 per cent The is much higher than the incidence it ually re ported and tends to support the author's con li s or s

In three cases in the sen s the e lamp s was as times eases at the series and examply 8 was sessonated with placenta præva at it is sug ted that this association was de to beopytion from the traumatized præva portion. The freque p y of abortion premature bor a d toxproi in such cases suggested that the factors underlying pla enta pravia and toxemia may be idertical

GOODRICH C SCHAUP LER M.D.

De Snoo k A St dv f Eclampsia i Eki t d) A dni T jd k v ini k n G Eks mp 06 x 1 85

an exhaust se m n graph 1th ine 7113 I theriy's en cr s titt n by the table u ces or to I he th Uegartm nt fellstet rics nl Cymerology of the Un ersit of Litte hi I De con opinion e lampeia mu t be related to a pathological contit is of pregnancy. D im portance in its development are sodium chi nde Harrar J A Rectal Ether Analgesia in Labor Technique and Results in 5 800 Cases at the New York Lying in Hospital 1 1 J Obst & Gy c 9 7 mt 486

In 5 800 falors un for analysis the author has observed no increase in a physica at burth or in the stillbarth rate. Notifier was there any prolongation of the permeal stage or increase in forcept delivery. The only contra indication to the procedure is utterine inertia and the only restriction is not to start too soon. The symman should be in active labor that is there should be pained in priming any the certification of the property of the process of the certification of two or more finger tips. He mechan in of lation of two or more finger tips. He mechan in of lations.

met the as closely followed by the obstetrician as if no analgetian were induced. The drugs required—morphise magnessum still phate ether and quintien—are easily obtained and their action is tell known. Quinne is found to be resent all in the rectal institution formula. The method has a much wider applicability than scopol anine anineas II can the used safely a and felt into the phisician in home confinements and does not require the services of a trained anastherit. This is the safest and most effective method of bruist should be a supported by the properties of the properties of the most freedy part of the dorder of the worst that has yet been devised. It is that all applies the most freedd part of the ordeal of labor without the most freedd part of the ordeal of labor without

Carrell J F Perineal Injuries During Parturition with a Report of 336 Cases im J Obit & G) c q 7 1 617

FIC SYFLE MD

endangering either the mother or the baby

The closure of an episotomy wound is quite simple when compared with the reps rof a traumatic laceration espe ially if the wound vas compounded and has tributary lacerations running up into the s les of the vagina. The simple introduction of two or three non absorbable sutures even though they p ss to the very depths of the nound can no longer be couns fered good surgery.

The author u es the median incision if ep 100mp; is indicated It is most often employed in the cases of p imipare and in multipara: who have had exent ten ne perineal repair previously. If a cent t in 15 on extending down to the superficial fibers of the anal plan her does not afford sufficient offer of the anal plan her does not afford sufficient offer the anal plan her does not afford sufficient may be m le. The oblique part of this incision to either side of the rectum may be m le. The oblique part of this incision divides the pasterno fibers of the lexator ani muscle on the 16 to on which it is extended and these must be care full stutted as soon as deliverly is completed.

These ounds are sutured with \$0.2 or \$1.03 twenty day chromozed catput. The structures are un tel in the reverse order from that in which they see severed that is the muscle at the depth of the nound and at its upper end is sutured first. All sutures are interrupted exec t those in the vaginal muscus All dead po es soliteration.

Whatever the technique the perineal incision should be made for prophylactic purposes and not as an emergency

In 336 recent cases of delivery at the Jefferson Hospital Maternity 125 of which were those of primipara: there were 164 vaginal and perineal tears ranging in degree from a slight mucous membrane abrasion to a severe laceration involving the

sphincter muscle and the rectum
Of the 125 patients delivered for the first time
thirty four (27 per cent) were free from lacerations
forty three (35 per cent) suffered first degree
lacerations and forty seven (38 per cent) suffered

second degree lacerations

In this series twenty-one episiolomies were per formed seventeen on primiparae and four on multip arae E L Cornell M D

Phaneuf L E The Obstetri al Future of Women Del vered by the Low or Cervical Cæsarean Section im J Ob 1 & Gy c 1927 x 11 446

Sevent) one cervical casairan operations were reformed on thirty gravide. Of these forty-one were repeated sections in the lower uterial segment. There women had four operations five had three and thenty tho had two. Of the original thirty first operations fourteen were done according to the Vert I rommer Hirst method and sixteen according to the Selfheim technique. Upon separation of the bladder in the forty one repeated low carserian sections the lower segment was found to be smooth there were no depressions and the previous scars assuch could not be identified.

From a study of the series the following con clusions are drawn

1 The low or cervical casarean section is fol

lowed by perfect healing of the cervical scar
2 It gives definite protection against rupture in
subsequent pregnancies and labor

3 Delivery through the natural passages is possible in many cases when no disproportion is present. This is true of cases in which an abdominal delivery for a relative indication was presented in a previous prenancy.

4 The dictum once a cæsarean always a cæsa rean does not necessarily apply to ca es of cervical cæsarean section

5 The operation may be repeated with ease Pelvic adhesions are reduced to the minimum except when the Vet Fromme Hirst technique is employed and even the adhesions following the latter technique do not interfere with the per formance of a secondary cervical section.

7 Abdominal hernize are rare. Not a case was observed in any of 206 cervical casarean oper ations.

8 The convalencence is more nearly that of a pelvic delivery. As there is no handling of the intestines shock and distention are reduced to the minimum.

9 Protection is offered against peritonitis
E L Cornell, M.D.

dranings

are expe t

breaking down of the complex protein molecules into simpler compounds by proteolytic ferments contained in the cell bod es themselves cytolysins are specific for various types of cells and their albuminoid decomposition products consist mainly of peptones and hemialbumins Concomi tantly with these chemical transformation, definite histological changes take place in the cells themselves during maceration Granularity of the estoplasm is an early and practically constant feature and is later accompanied by swelling with gradual loss of the cell outline Such a condition of the protoplasm is a true granular degeneration indicative of cell death It is a preliminary to liquefactive necrosis

In the author's cales fat granules were occasion ally noticeable in paraffin sections in the form of small vacuoles in the autol zing cytoplasm

In some cases the nucles undergo a preliminary pyknosis before dissolution but the most frequent change noted by Thomson was a gradual karr olysis in which the nuclear membrane was the last struc ture to disappear. After granular disintegration and Lary olysis the cells un! rgo liquefaction

The temperature the reaction of the medium surrounding the cells and the state of metabolism at the time of death have an important bearing upon the progress of fetal maceration

Highly functioning individual parenchyma cells invariably disintegrate more rapidly than the less specialized connective tissue rells of the same organ E. L. CORVELL M D

LABOR AND ITS COMPLICATIONS

Klumper P Facial and Frontal Presentations (Difficontgn) \ derl T jd h v iel k en C3 c 10 0 223 20

klumper reviews the e per ences at the Rotter dam School for Mid rives in 12ty-eight cases of facial presentation twenty five cases of brom-presentation and minety cases of frontal presenta tion admitted during the period from 1907 to 1923 The facial presentations occurred in the cases of thirty primipara and thirty-eight mult para the brow presentations in the cases of two primipara an I (went) three multipara and the frontal presen tations in the cases of thirty-one primitiara and fifty nine multipara

All factors which weaken the stability of the head at the lower pole of the uterus favor the occurrence of a facial or frontal presentation whether or rot such a presentation results in the presence of such a factor depends upon chance Frontal p esentation represents the sl bhtest degree of flexion Because of the presence of the face on the anterior lower p et of the skull the transition of the head into more marked flet on is rendered diff cult Brow presentation r pre ents a middle position in a labile tain conditions. It is incorrect to regard the brow presentation as an incomplete facial presentation transition to a frontal presentation is possible

The treatment of frontal presentation is similar to that of occupital presentation except that in the former delivery is po sible with both the f ce and the occuput anterior In cases of facial presentation it is best when porsible to await spontaneous delivery if interference is indicated correction to an occipital presentation should be attempted befo e the high forceps are applied In cases of brow presentation the position of the head should be corrected as soon as the cervix is compl tely dilated if there is no possibility of spontaneous deliver Before complete dilatation of the cervix a charg into a frontal or facial presentation i pecessary

The condition of the pelvis must always be taken into consideration. When the head is not engaged it is usually advi able to place the woman diring labor on the side toward which the back of the fetus is directed. If properly managed frontal and facial presentation are no more unlavorable for the moth

er than occipital presentation The article contains a critical review of the literature numerous tables and four schematic

LAMPES (G)

Miller D Occiput Post the Post in of the Ve tex A Survey of 759 Cases Ed nb gh M J 1927 gtti Ed nb rgh Obst Soc 77

This article is based upon 750 ca es of occiput posterior position seen in the Edinburgh Royal Materially Hospital. The abnormality occurred in 18 per cent of vertex presentate as In more than no per cent of the cases the occiput a s directed to and the right

Spontaneous rotation occurred in 474 cases (more than 60 per cent) Sponta cous rotation and de livery resulted in a mo bid puerperium in twenty four cases and seven fetal deaths. In filty-one cases of spontaneous rotation v th forceps delivery there nere s v fetal deaths and seven cas s of puerperal mo bility Spontaneous deli ery face anter or occurred in eighty-eight cases. In this group the e we e eight fetal deaths and three ses of p e peral morbidity Arrest of the head at the pelvic brim occurred in 6 4 per cent a d resulted in a maternal morb dity of 20 per cent and a fetal mort bity of 33 per cent In 18 o per cent of the cases the head as arrested in the lower part of the p lvic cav ty and in one third of these it had rotated p steriorly into the sacral cavity In 50 per cent of the cases of im paction manual rotation was done and followed by sportaneous or forcep delivery In 25 per cent in which delivery was effected by forceps rotation the fetal mortality was 20 per cent Rotation with forceps should be undert ken o ly by those who

The high fetal m real ty this se ies of cases 23 per ce t suggests to the author that whe this se ies of cases there are clea indications of fully flexion ma ual rot t noi the fetal head with ternal rotation of the fetal body might be done with advantage as a routine procedure early in the second stage of labor MAGNUS P LEVES M D

There is a striking analogy bet een the process an't

presence of shuges an Innero organi ms. The fourteenth day is roughly the turning point at which building up definitely exceeds retrogression. It the end of three weeks the process of restoration is still fair from complete. After from five to a weeks restoration should be fairly complete to evidence of recent pregnancy may be recognizable for a considerably longer period even under cumulationes most invocable for involution. Such evidence is found in the presence of pigmented phagocytes and remains of the uteroplacental vessels.

Six specimens are described and shown in plates

E L CORNELL M D

Hunte J W A AcutePostp rtum Œdema of the
Cervit Uteri J Obt L Gung J t J p 2027

x 7
A para iv one month past due was suddenly taken with a le ire to defacate and gave birth to an 8 lb baby with only one pain Immediately there after she noticed 4 fleshy lump out ide the vagina hich randful increased in size caused considerable

pain and was very tender to the touch bout two hour later she showed some of the signs of moderate

sho k

This case presented many currous festures and a diagent search has receased no similar case in the literature. The almost unsurfaces weeking and elected of the certra following the extremely predecent of the extra following the extremely precluding the possibility of prolonged pressure on he certric between the presenting part and the pelvic birm. Moreo e there had been no previous desent or protrouse on the certric them to the pregnancy or before it not had such conditions desent on the present of the pregnancy or before it not had such conditions. I all van the complete return of starting feature 1 all van the complete return of the propage (e.g., 1) and the mormal state without hypert ophy o prolap e.

Mill r C J Puerpe al Infecti n S # M J 10 7

The author contends that in the local treatment u ed so gene ally in the past for puerperal infection ev ry p in iple fanatomy physiology and pathol s hisregar led He asks Wry douche the uterus f r instance v hen it has been repeatedly pro el that bacteria travel so fast it is a physical mp s bits to s ash them away before they inva le the deeper structure ? Why curette the uterus wh n all we acc mpl h by it is to scrap away the superfi al necrotic layer and listurb the under by g protective leucocytic infiltration and thu run ev . hance of converting what might have re ma ned pu elv local process into a true blood infe ti n Why use antisept c solutions when laboratory evidence all goes to prove that bacteria e nn t be killed in the human ti sues by external Senost wings

On Miler's service the local treatment for nucrperal infection is limited to exactly one pro cedure If when the nationt : first seen the cervix 1 patulous lebri frotrules therefrom and the and membrane are gently removed preferably with the gloved finger but occasionally with the snonge forceps Even this is not done unle s there is free bleeding which has not been checke I by a firm vaginal pack supplemented by dose of pituitrin and ergot If the cervix is closed and the uterus well con tracted no manipulations of any sort are done Drainage in such cases is of vital importance but is not secured by mechanical means or even by posture although Fowler's po ition is frequently helpful If the uterus is firmly contracted drainage along lymphatic and venous channels will occur naturally and no manipulations will improve it

In puerperal conditions of the adnexa immediate surgery is seldom indicated. When the gono occus is the invadin, organism localization is almost the rule and viben the strepto occus is present laparotomy is so serious a matter even viben delayed for months that it should never be resorted to each on externe and at one.

Hysterectomy has a very limited field. It should not be done unle conditions are present which would warrant its performance under any circum

stances

For pertonuts laparotomy is theoretically a logical procedue and if the infection is generally all the logical procedue is a necessary procedure but the practical difficult ear every great. If the process is localized in the pelov the chances are that it will remain their and laparotomy will only spread it. On the other hand, if it is already generalized involvement is so rapid and epitecima such a frequent accompanient particularly, if the streptococcus is responsible that the sutuation is frankly honeless.

In premia ligation of the pelice veins with the diea of per centing the entiance of detached particles of crumbling thrombi into the general blood stream has also a very limited field. The diagnosis of py man is frequently difficult. Even when it is definite a dithe abdomen has been opened it is not always possible to decide hos far the thrombi have exten field Ligation below the farthest point of exten ion is obviously u cles

Localized pur collections should of course be openel as soon as fluctuation is present but in parametrial exudates resolution as better effected by natural processes. Infected evudates and tubal absects as then are pointing or bulging in the cul de sac may be treated by colpotomy which is a practical pro-dure even for a de perately ill pattent.

Ior several years the author has been giving transfusions of whole blood with an equal amount of Ringer solution in quantities of not more than 300 cm. These are given at three day intervals and from different donors. The results are better than those of any other special treatment. The anzemia is improved the blood pressure rate of and the leuco-

Montgomers T I The Mo bid ty and Mortality

I Greatean Section im J Dit of y

2027 1 Cto

Ments m ty revi twenty for class at c a rean sections performed unfor other anothesia by samous ure one. The maternal m righty was to per cent

The first d the was due to kepts and it he second to personate. In the third fittalice e the patient was admitted to the ward in a renthund c re hixton from see the harmorine due to phenetal pri a and as it appeared that no procedure derei a sub-tainful and the procedure of the surprise of the procedure of the surprise of the surpri

segons.

Twenty-six infinis were delivered of these three (is o per ent) were born deal and three died after felivere a total infinit montally of 12 % per cent. The three still inths occurred in cases of antepratum tible in —one acase of placenta prawn and the two others or a soft premature separat in of the right-size.

These case and the registion the literature in lette that the early or elective existern section has a lo mortality (z to 3 per cent). In late case t an section of the classical type the mortality.

is high (20 to 30 per c nt)
Licelay of operatin n in cases of it propertin n dangerous. An effort must be made to reach a decision from yearnst caracran section either early

in lat ror before its onset.

The statt the rai e the question as t whether in late operation for any indication the classic lensarean section at ne meets the requirements.

The operative re ult in fibroma uteri complicat

ing libor at not jetti ularli g. !

In placenta pravia the matera l m et lite is
higher hen ex-arean section is done than wh n
other comminly accepted meth. Is, I klivery a e
use ! The operation is most definitely in lead d in
cases of central placenta pravia with a m-n-dil ted.

re stant cervix

The airi bihty of cesar an section in certain
cases of primature separati n f the fire nta is
still un fer con rilerati n LICREL MD

PUERPERIUM AND ITS COMPLICATIONS

Oer 60 per cent of heles ons hi h make p the h eases peculit when are the lectresult poor midwifery traumand (ct on and fall us of the plys of gall ni biochem al processes which take

place in involut on Infection I creat in swith resulting relaxation of Infection I creat in swith resulting relaxation of the pelvic it sues permitting a considerable descent of the uterus retro ispla ement viscer plot s a d a full ectum d turb the cir ulator; equi b important the pelvis and allow pauce ong st n

The conditions retard the ply ologic I processes and leave a permanent pathol g alchange in his recognizable years later and p i ces a surface kno nas the general geal to 1 x z ham orthig to orthigh a play in a play in grant gra

The author attempts and in great part u ceels in comi ating the occurrence of these con I tions by (1) preve ting infection (2) rel cing the trauma of labor to the mi imum (3) limiting the bloo ! loss (4) mm di tels rej a ring birth injur es (5) man taining retraction an I contraction of the uterus by encouraging breast feed ng and thus favoring the physi logi al acts included in a volution (6) fav ing uterine and vaginal damage 1 posture (7) re-estal h hing the intra abdominal pressure and the muscular t ne of the abdominal wall by have g the w man practice a stable active exercises (8) intermittently emplying the ven us pelvic engargement by have g the patient assume the knee che t posts n everal times a l v (o) recognizin and treating the co existing eros as of the cervical muc xa ta time wh nexten ion of the infect on may be prevented (10) correcting Il malpo tions and d Lacements of the uterus with the asso rate! enk rgement of the pamp of rm plexu by posture manipulation and the retention of the reported plerus with a properly fitted pessary a d (rx) clecking up o these c ndit ons by pe iod c exami nations until the involution is complete and the anatom cal relations are perfect

ILC ELMD

Teache J II On the Intolution f the Uterus Jost parturn J Ob 1 & G3 c B if Emp 9 7

Knowledge of the macr scopic and micros op appearance of the utrus at various per ols after delever beau being nece a y for a proje runder standing of the prices. I no lution in relate a to tetres may be feet alimportance in odro leg 1 roble much those of imiliabo tion.

Bicause i the ompleats of the gan concerned involution as complea poets under a rural cur cumst es a d nin th pre ence of gas on strutu al and light local d ea t probably preservant as fair regul rate. The child turb to of th heal g jo is c elby return to get the product of onception. Such regulo 12 is the process

The mot relable informat a sith r g rd to invol it in pro del by minat nof the mucous membra e unther g, as hich wer overed by the lexitus era and a the place all ste Both f these reas sho libe examine!

The changes in the first we'l connered chiefly with demytation of the issue whi he et persh and he she'l in the l'char ketrogre i of the sur wring d'c dua a d'reat i prile it a are allo occ i ing. In the second we'k the process of occassing and re toratin a lan e rap lly and the formati a of a provisi nal muc us im mbrane is a mall c mpleted by he tu th jourteenth day

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Sturtevant C N and hells T G Neurocytoma of the Lett Suprarenal Gland with Metastases to the Line Skull and Bones 4m f D: Ckld 19? vu 590

The authors state that tumors of the orbit with

ecchy mosts of the cyclids and proptosis in infants and young children should arouse the suspi ion of me tastases from a suprarenal growth

Chloroma is associated with almost identical grot the but can be excluded by absence of the char

acters tie changes in the blood

The literature refers in some instances to tumos of the left super-cadi causing in statistic first to the left spe and fumors of the right supraterial causing metasts: first to the right spe This indicates transm sum by way of the lymphatic prints at a can which the first metast and the reports at a can which the first meta support to the support of the support of

Helmholz H F Chronic Pyelitis in Infancy and Childhood H & r M J p27 K 1 80

There are to common types of tylelit in infancy. In the first nearly-lined fever is greent without definite physical findings save perhaps shight pollor and restlessness. The presence of large amounts if pus and of numerous bacteria in the urine establi best the diagnosis. The second type of prelits complicate south infections as outins mid tousilities and furuncles.

Another group of cases ob er ed in infancy are characterize by recurring statics to fleet persist ence of malaise and pallor extreme pyuria and great difficulty in fact practical impossibility of effecting a bacteriological cure by the usual thera peutic measures. The majority of such severe in fections or ur in the presence of an abnormality of

the unnary tract interfering with drawage.

In the older rolls see and clinical forms of pyelitis occur. There is the typhoidal type in which the occur. There is the typhoidal type in which the indiction of the unn ty tract presents no local indiction of the unn ty tract presents no local or the property of the prope

In a certain number of cases a bacteriological cure is not obtained because the pichtis is not recog mix d the treatment is inadequate or there is some abnormality of the urinary tract

In a case of chronic prelitis in an infant or child the diagnosis should be definitely established by culture of the urine Then depending upon the length of time that the infection has persi ted and the nature of th therapeutic measures that have been used other medical procedures should be attempted before a complete urological examina tion 1 undertaken \ combination of ammonium chlori le and methenamine has been found the most useful therapeutic agent. In uncomplicated cases of pyeliti the infection generally disappear in from one to three seeks Ca es in which the condition persi ts in spite of treatment should be in estigated prologically In those due to abnormalities of the unnary tract surmeal treatment will depend upon the urplostcal findings

Blatt P Open Cavernous Renal Tuberculosis without Bladder Symptoms (Off ne ka ernoe e ere tuberkul se oh e Blasen ymptome) A ch f kin Ch 9 6 exi 6 4

Blatt report five quite aly pixel cases of tuber culous py onephritis characterized by an abnormally mild course and especially by the total absence of subjective and objective bladder symptoms. Two similar cases were found among 150 patients oper ated upon for unlateral renal tuberculoss on the service of Rubritus Blatt discusses, the relation ship of these cases to the culliural characteristic of the tuberfee backlins and suggests that the condition may be produced by a partirular strain of the organism

Blocat (2)

Judd E S and Simon II E Hamorrhagic Cysts of the k dney Sug G ic & Ob 1 19 7 xh 60

Large solitary cy its of the kidney are of two types serous and hamorrhagic. The serous cytis are the more common. Cysis containing blood but occurring in association with neoplasms differ from the imple hamorrhagic cysis under con ideration.

Thriteen cases of hismorthasise cysts connetered to be authentic have been reported in the hierature and two cases have been observed at the Vaso Clime. These cysts re practically all aya solitary. They occur in both kidneys and have a predilection for the lower pole. When teco unset chuncully they are usually large but a few small ones have I een found at autops.

Hamorthagic cysts of the kidney have been attributed to various causes including trauma neo plasms and harmorrhage ruthin serous cysts. While these factors for rise to renal cysts the structure of the walls in the two cases reported in this article walls in the two cases reported in this article with the harmorrhage that the structure of the wall of an aneurism. The presence within the cysts of layers.

cytosis increased at least temporarily As the reactions are milder and the effect on the blood stream is definitely to be anticipate I the procedure lacks the potential ties for harm which are inherent in most methods of chemotherapy

While the tendency toward localiz tion may pro long the course of the disease it materially improves the patient's chances Streptococcal senticamia is fatal in fully three quarters of the cases and general peritonius has a mortality almost as high

CARL H DAVIS MD

Schwarz O H and Deckm nn W J Pue peral Infection Due to Anae obic Streptococci 'Am J Obst & Gyn c 19 7 x1 467

The authors have been able to classify the an aerobic cocci only roughly using the proteolytic powers of the organisms as an index

One organism that has been encountered very frequently is a very mall gram negative anaerobi execus or coccobacillus. In a small series of eight obstetrical patients this was found six times in the vagina and three times in the cervix. It produces on blood agar media a black pigment which is probably melanine. In pure cultures it produces little 1 and hamelysis but in symbiosis with other organisms particularly other snaerobic cocci its ham let c properties are tremendously increased The marked blood destruction shown in some cases may have been due to this organism in symbiosis with athers

Anaerob c streptococci were isolated from the blood in eleven cases a compared with six in which other pathogenic organisms were found. The uter me cultures in thirty five cases showed anterobic streptococci while in twelve cases they sho ed other pathogen corganisms In only a comparatively fe v instances was more than one organism isolated from the uterine or blood cu ture Anaerobi streptococci were recovered in six cases of pelvic abscess and five cases of peritonitis During the period of study there were ten deaths in cases of puerperal infection Five cases were due to anac robic streptococci which were recovered in pure culture Anterobic streptococci were found in three other fatal cases but were associated with other organisms Three of the deaths were due to throm bophilebitis with resulting pyamia and in ore instance there was severe peritonitis which termi Thes latter four cases are nated very rapidly reported in detail

Anaerobic streptorocci play a considerable part in puerperal infection. The infection is caused by

th s organ sm and in most instances remains on fined to the endometrum lewer of these cases developed th ombophiebitis be ause they were rather promptly treated with respect to the uterire lesson In any case in the ch there is a profuse foul smelling discharge the autho s make it a point at the time they obtain the uterme culture to remove retained secundines or clots by digital means or by the use of a blunt curette and to follow this with a 1 4 000 potassium permanganate douche. In future cases of pelvic thro nbophleb t s due to anacrob c organi ins particularly the st eptococcus putridus they will attempt ligation of all pelvic veins E L C av LL M D

Harri J W and B own J H Description of a New Organism That M y Be a F ctor in the Causation of Puerperal Infecti n B il Joh s Il ph Moto Balt 97 xl 23

From the uters of women with puerperal infec tion the authors have isolated strains of an organ ism actinomy ces pseudo necrophorus which closely resembles actinomy ces necrophorus but differs from the latter in being non hemolytic when grown in blood agar plates and in failing to ferment lactose The two organisms do not ross agglutinate in im mune sera

The finding of actinomy ces pseudo necropho us in cultures of the uterus in three of fifty cases in which casarean section was done indicated that the The was organism is present not un ommonly evidenced al by the fact that it was found at autopsy in a b oad I gament ab cess in another case and in the clinical in estigation of two pati ats who survived. Ir one of the latt r it was cultured from the cervix and in the other from the uterine cavity

In all of the six cases the lochia was profuse thin and foul In the cas s of the th se women del ered by exsarean section the inci ion b oke d wn and discharged large quantities of thin g cenish I vipus In all six c ses the c nyalescence wa prolonged beyond the normal limit Five f the six p t ents were seriously ill This hist y of the cales from which the organism was isolated indicate that it is not harmless although it does not appear to be as pathogenic to human beings or labor tory animals as is actinomy ces necrophorus to nimals Because of its extreme sens tiveness to brief exposure to air its presence in the human genital tra t has probably been overlooked heretofo e

The authors urge fu ther wo k to det rmine the true significance of th organism in haman infection GOODSICH C STRATFFLER M D

During the progress of these experiments necrops, nas performed on a large number of rats fed in other nais. In none of them were talcula found in the bladder

The authors conclude that the diet used in this intestigation favored the formation of calcular cause of the conclusar combination of laults a defected of the condition of the conclusion of the conclusion of the conclusion of the conclusion of the times of earth phop phates and possibly a tour action on the umany fract. The indings seem to corroborate the observation of Lujumaka (19 of that stone in the bladder and kidner can be produced in rat by feeding a rithetic data deficient in tannine A for long interest.

HE RS L SANFORD MID

Stevens W. E. D seases and Abnormalities of the Female Urethra C 1 fo 10 - W 1 M d 1927

Stevens emphasizes the frequency with which jathological conditions are found in the female urethra and the necessity for a careful examination of the organ in the pre-ence of symptoms referable

to the urinary tract

If possible the utine should be retained for several tout before the exam nation. The meature is cleared with tert legaize and pressure then made upon it. Any dischinge obtained in this way is examined. The unethrain then carefully palpasted and milked from behind it mand and any entertion appearing.

at the meatu is ex raped
Following thorough douching of the sagina and
leansing of the vulva the urine is passed into two

gl ses

The ethra is next calibrated with of we tipped boughts and examined through a Moore skenescope for figeat value all on the treatment if les one of the portion of the urinary analysis.

Afte the skenesope exam nation the patient is attentioned and in the abone of stricture is pleed in the knee chest position for interhoscopy Sevens uses the WeCariba nation until oscope or the Kelly is ethiosope and valter distings near outer of the patient of the stricture of the Welly is ethiosope and valter distings rear until oxing period of the patient of the stricture of

I eth it so the female outsually caused by infection with the genecoccus but may be due also to other organisms such as the colon bacillus

The eth al glands e pecially it use of Shene are very irrequently involved and it is to infect on of these structures that prolon ation of the disease and its re istance to treatment are usually it.

Hispo pa is 5 and ep spadias are rare. Instances of complete and incomplete double wrethra have been

reported. Absence of the urethra and atreasa of the urethra have been reported but are extremely rare. Susctures of the urethra are now recognized as important etiological factors in genito utinary, tract di juri ances in the female.

The majority of urchral strictures should be treated by gradual dilatation. This procedure best promotes absorption of the constricting exudite Meastotomy internal urethrotomy or external urethrotomy with resection of scar tissue is some times pecessary. Many of the hard infiltrations

render internal uterbrotomy advisable

The common beingn tumors of the female uterbra
are the polyp papilloma and caruncle. The many
namt tumors are careinoma and sarcoma. The

former is uncommon and the latter very rare

Because of the shortness of the canal its lack of
marked curvature and its distensibility stones are

rarely found in the female urethra

Lotio Gross M D

Iselin A Malformation of the Posterior Urethra A Clinical and Roentgenological Study (Mal formation de luctic posté seu étude clima radi logiqu.) J d r l méd et ch. 926 xxi 493

A man ol 55 yetrs complained of moderate difficulty in unnating. In the morning if he re sisted wination for some time he experie ced trouble in starting the stream. Exploration with ordinary instruments revealed an elastic obstruction in the posterior urethat. However, as sharply angulated sound even of large size entered without difficulty. There was no restoral urine.

With the urethroscope two congenial value like formations were found in the antenor urethra but examination of the bosteror urethra was unsaid factory. By miecting the urethra was function that the processing the urethra with lipodol anteroposteror and oblique roentgenograms were aboved a dilatation of the posteror retains to the said of th

The deformit, was believed to be congenital but corresponded to no type beretofore described. As the disturbances produced were slight the treat me t has limited to distation with sound. The report is supplemented with diagrams and roent gringrams. Austrar F D. Congri VID.

GENITAL ORGANS

Morrissey J H A New Technique for Perineal
Pro intectomy with Preservation of the External Sphincter S & Gym & Ob 1 1927 xl

Becau e of variations and difficulties in the tech a que of perineal prostatectomy incontinence is a complication in a faith luge pe tentage of cases

D mage to the internal sphincter prior to operation makes preservation of the external sphincter essential of clit 1 llool and the occurrence of profuse hemoritage is escratinatan es when there or tents were eva useful at operation support the contention of the author that the costs are occluded size norms.

The simple me are not characters for cone is sing of the presence of a man a with vague free or except to a mergain and excels such hematicia the polyection. The same such as the such of the such as the such as the such as the such of the such as the such as the such as the such as of the such as the such

Ball Sir C. A : Ren I Han aturia 2 4 Jr C to

Herattung navely if the prese collation ration on a therefore of this chrone legethial mapphilit Be asses of the time enterval letter in the statesh the cause of the leveling indicate teterring. Delive in the Lagram stray lessed to the author reports for cases in which populate point in the position of the way effect and optain note that the case in which proposed in the point is passed to the way of the well with the grade of the point in the second of the position of the

Lemberger W.; The Operatic Treatment of Deep Leet cal Mones (User I peratic Thirps tief it of User I be) It by J. & Ch. 1915 - 432

Th authorities a number of case his treashing how severe tread changes such as 1 younghar as an I renal at cess runs level print the presence of a utitieral atone who fir a ling time the street little may cause a symptoms to arouse and it. Buy of this first perative interference should not be to the street with the street little when constructing the many cause and the little perative interference should not be to the street when constructive measures fail to

r more a ureteral stone.

I r th operative removal of ureteral stones with hexause of anatom' at cor I ton usually remain in by 1 year part of the ureter and are justants, call level per control to the ureter and are justants, call level per level to the utility and the protection of the all rimit furth greatened in the all rimit per the all rimit per the use of the use o

he ault r recomment the tanasstal noute constituted in the section with slitting of the roof of the ur recovers all with 160 a listance of about 4 m and 161 attains of the time so th, it will permit the introduction of a lost 180 the study to the study to divers in necessary, in the exist on the stume 1 the operation is spondare us expulsion after from eight to furteen days may be expected by nanes use rapids in a favored by placing the study study to the study of the

care is taken in m hi g the incision there will be no danger of a per trading wound

Of servation based on an extensi e material face deer natracted that the incusion of the o tium has no unfavoral le effect on its function. The author reports ten cases which erecured by

this method Ins an (2)

BLADDER URETHRA AND PETIS

Blaut in N. Cy ingraphy and a sluble Ald and Advanced M thost of Diagnosis of Tuberculosi of the Lenito Lrin ry System Freilminary Report of in estig tin J. L. d. 17 8. b.

The author learness the path log at changes occurring in the Lis Herfa renal tule cubes Herfauns the cau at le fact is of a linting of the Lia her and it the definition notes in cystograph

of the tuberculous Lis fier as f llaws If at iv acid unne and the product of tubercul us meta s l. m are stro g irritants cau ng mere musul ractivity of the treter and thill ! increased activity causes a h peramia a d the hyperamia favors penetrat in of the irritating pri cts through the muci u membrane. Thus penetral n cause in turn a blatat n of the capillanes in the muculat e The ditat n results in com, I te sta is with cell i fitrat on prol f rate noffit reselements and stint gofthe munict ue Tiemusclet: ue become weaten ! in its fu t nanlin tim i displac lis fi ou ti sue The ultimate ; th I peal p ture i th t of infiltration I tat in and rice lits of the ureteral wal sh rieming of the utet r retra to; I the ureteral meato producing th so-cale ! g li h le appeara ce, a ! infiltration organizat n an ! fibr sis of the !! !! r wall on the affect d de pro

I crep the typec l in lee blad r.
The jetture of in h laller per is aft r n phrect my nl ureterect m a li seen eve after two years when from its appearan e and the patients cound it in the blat fer seem to be en trels free from t bereks.

J St. Ly Retter M D

McCarriso R i Th F perim ntal Prod etion f

In exercise it car sel out t at d the ferma is no fat s in the libi ler alarge number fats were placed on a led i clam, prot in of animal origin of steen in histories and in the libit serve of cart he phases and in the control of t

phatic area is apparently efficacious in cases of seminoma even when abdominal metastates appresent. It is best to irradiate before operation with low voltage to the testicle and high voltage to the addomen. High voltage irradiation should be repeated two months later following removal of the ticle.

All patients with metastases v bo are treated by orchidectomy alone will succumb

The prognosis in cases of teratoma is unfavorable as the mortal to of the radical operation is 12.4 per cent and there is danger of incomplete removal.

It is not uncommon for death to result from metas

tases in the secondary lymph bearing area after the primary area has been removed and found negative Loti G oss M D

MISCELLANEOUS

Allemann R Leucopiakia of the Urinary Tract
(Su la lu pl ds s nn c) J d l
med t k 9 6 tu 449

In this article the literature on leucoplassa of the unnary tract 1 reviewed. Mention is made of the various theories regarding the etiology. If the condition and of certain classical cases reported in the literature. The author reports three cases of his own

Leucoplak a has been regarded as secondary to amous infections. Itall belie ed that any chronic inflammation might be a cause. Vordique and Lav mus found a cause in tuberculosis and I thiasis La Virghi attributed all cases to syphilis because his ca es all responded to anit syphili. Treatment

I osner demonstrated that epithelium of meso dermal onign may become transformed into stratified quam us epithel um and concluded that the pec ficity of the germ lavers is only relative Va chand believed that in no of hi cases the normal mucosa had been replaced by their in growth of the stratified squamous epithel um from a urinary fistula.

Leucoplakia is generally a very chronic disease persisti g for many years vith periods of frequent nd painful urinat on and often terminal hampturia The urine is rel tively clea but f equently contains desquamated cells These cells contain glycogen a fact of importance a thed agnosis Long remiss ons a e frequent. Ur nary infection is the common terminal condition a d eventually cau es death Lithiasis is al of equent If this chinical picture is borne in mind a diagnosis can be made with a fair degree of certainty even when the leucoplakia i in the upper unnary tract Ch lesteatoma formation in the Lidney pelvis has complicated the symptoms by causing retention Renal pain is frequent. It may be dull and continuous or have the character of the cohe due to stone

A study of cases in the Necker chinic showed that leucoplakia is a primary disease which is com-

plicated by infection only secondarily. The author accepts Lecene a theory that it is theresul of over growth of ectopic ectoderm. This theory seems warranted by the proximity of the wolfman duct to the ectoderm in embryonic life.

As mabgnant transformation of leucoplakia has been frequently observed radical operative treat ment is in third ALBERT F Dr GROUT M D

Hinman F Pyelo enous Backflow at ti e Time of Pyelography S g G3 c c Ob t 917 1 v 592

Preforenous backflow is frequently noted at the time of pyclography Tubular backflow for a short distance into the papillary ducts al o occurs In the case of pyelovenous backflow radiation into the cortex first appears as a cone or funnel deformity from the ba e of the pyramids and if the back pressure is sufficient may later show the arching from filled anastomotic venous arches Radiation into the cortex then appears along the interlobular veins a picture that never occurs with tubular back In the latter there 1 3 short frush like flow radiation from the tip of the papilla into the medulia for a short distance When unrecognized such pyelovenous and papillary backflow may lead to errors in the interpretation of pyelograms

C TRAVERS STE ITA M D

Barrington F J F Affect one of M cturit on Resulting from Lesion of the Nervous System P R v Soc M d Lo d a 7 7

The author dicu es the antomy of the nerve supply controlling the bladder and urethra. The hypogastice pletus is formed by the anastomo is of branches of the hypogastic ner e and the pelvic nerve which innervate the bladder and unstriped muscle of the urethra proumil to the compressor urethra. The pude nerve gives in e to a branch which supplies the compressor urethra. These three pairs of nerves containing afternit as well as effected to the properties of the properties of the properties of the them exclusively with this function.

I review of the literature of work done on does and cats showed that stimulation of the spinal cord does not result in contraction of the bla kier if both hypogastric and both pelvic nerves are livided proving that the central nervous system can in fluence the bladder only through these paths Miter section of both hypogastric nerves micturition i peri rmed normally Whereas division of both pelvic nerves is followed by retention of urine with overflow the e nerves carry the impul es of distress accompanying acute retention since after the divi sion of the nerve the animals show no di tress from retention. After a variable period automatic mic turition occurs and incontinence ceases but there is a large volume of residual urine Subsequent divi sion of the hypogastric nerves does not after the condition Then if the pudic nerves are livided the automatic micturition ceases an I the animal is more or less continually incontinent. It follows that the pude nerves must carry impules to the central

The t changue tescribe I by the nuth ris designed to pre erve th external phincter intact and of viate the nece sits of cutting into the membranous urethea. With the patient in an exaggerate f fithot oms po ition the incision is carrie I deeper in the center and the lateral fo sæ are h ected free by llunt d ection The central tend n is merse i suff ciently to allo v retraction of the bull and the transversu reriret muscle is retra te ! po teriorly He ne essits f cutting into the membranous prethra is obviate ilis the u of a spec al prostatio curve retra tor The rect surethralis is il s ecte! free from the pro tate and the pro tatic espsule is incis I with | ar liel incision well in the center of each lol e ar I at a safe listance from the prostatic met ion the lbe are then fr ed and the removal of the lobe fr m the pro tatic urethra a accomplate! The jr static capsule is ja ked ith gauz The I vat rant mus I a are then I rought together an t th kin wound is cleel with silkworm gut

sufur Lerfect urmary entrol may be expected if this

t hosque i f llone l carefully C IEN ESSEPTEM I

Southant A il and Cooper F R A. The Pattlelong, and T eatment of the Retained Testis in (lildi oxd la / l 1927 cc u 805

The authors decuse the meet among of lescent of th testis and the function and pith logy of the ret me t te tis They fram the I llowing conclu

- The farther the fre al le c nt testi has de scende I in its n tmal route the more cl selv it corr spon! to the s rotal glan ! of the same age
- The younger the age at which a retaine I testis is examined the more normal its at marance and characteri tics
- The uch ut pr at le cent life the und fferen tri I tulular cells retain their vitality and as in the scrotal organ un lergo further special zation into cel s of Sertoli It is rem rhable to find that the cells of Sertoli are very resistant t the con tinuance of the mulpo ition an late typical e er in a lult life Since the cells of Sertoh persi t in retained to tes it seem reason ble to suppo e that they are trying to I re cree the healthy con dition of the germ

cell If the te tis 1 still mistlaced at the time that pulsity is reached the c ils of Serials cem to be incapable of preventing atrophic chang

spermatog nous cell 4 The interstitud cells of Leydig are at parently not influenced by the abnormal situation of a

retained testis

In no ca e of retained to tis examined was ti ere anyth ng of an abnormal nature in the si e or structure of th epid dym . In the retained ere mor fre testis th epididymi and testi qu nth sep rate i by a digital fossa of width but a similar condition was observed al o in som scrotal te tes

It is now generally agreed that double cryptorchidism is associated in both man and animals inth aspermatogenesis but the elaborate n of the internal secret on responsible for the production of the eco fary sexual characters ; complete

7 The testis may be transplanted into the scrotum Transplantat on is the ideal operation as it places the organ in it natural po ition and gives it a chance to levelop its full funct on

8 It appears justifable to ad orate the tr ns plantation of the inguinal retained testis into th scrotum during the first years of life

MILLIAN'S BELLE MD

Wesson M B The Y Ray and Con ervative S r g ry i the T estment of Walignant Tumor of the Te ticle and Scrotum Clf a B ! 11 d 1927 x vs 648

Wesson gives a preliminary report of the treatme t of four cases of seminoma of the testicle treated by orchidectomy and deep therapy (one case without complete treatment) and of a very rare sarcoma of the scrotal ranhe

Sexual act vity may be a factor in the etiology of such tumors as the majority diveloped between the ages of 20 an I 40 years the period of greatest sexual vigor Undescended testicles in the inguin I canal subject t frequent bru ng against the pub c bon are more prone to become can erous than those in the scrotum This is the o ly real evidence that

trauma may be of etiological importa ce Clinical recognition is primarly a m tter of exclu on as the tumors present no pathognomome

signs or symptom

The pre ence of a po the Wassermann reaction and an enlarged testicle do s not necessarily indicate gumma If intensive anti syphili treatment do s not cause the immedi te disappear n e of the tumo exploration is indicated

Ill swelling of the testicle mu t b cons de ed malignant u I I they are proved benign he c imme diate surgical exploration is indicated n Il doubtful

cases The treatment is of three types (1) imple cas tration (2) rad cal operat for teratoma and (3)

castration and radiation for semin m

Sin ple ca tration is justifiable only in benign tumor It sine er ju thed in ase I malig nant t mor Orchidectomy sal avs effect ve when there are n metastases but metast se may occ r with the beginning f tumor growth and quickly pass through the p mary feld flyn ph glands to the oppos te permary field or into the i operable second

ary field
The three objects n urged against the radical operation are the impossibility of removing the lymphat c feld completely without cau i g grave injury to vital structures the high operative mo tality and the risk of operation when in so many cases the ti sue removed shows n metasta es

Simple orchidect my with high ligation f the cord followed by thor ugh irradiation of the lym

le ion may be present simultaneously. Much infor mation may be go ned from the hi tory regarding the type of the hamaturia its persistence its fre quency its amount and its relation to other symp

Cysto copy is most valuable during the period of bleeding as it ill show whether the blood comes from the bladder or the Li lness The abnormalities ob erved aroun I the ureteral meatus indicate the side on which a renal lesion is situated. If the blad ler appears normal other methods of investigation are necessary

The a istance of roentgenography should be ought first The \ ray will show the presence of a calculus or any other abnormality capable of cast ing a shadow. The entire unnary tract should be

included in the roentgenogram

Foreign material in the appendix and cul areous 1 mphatic glands lying along the course of the ureter or in the mesentery are frequently responsible for erroneous d agnoses of calculus. In such cases ma nipul tion of the abdomen durin the roentgeno graphic et mination or even a change in the patient s cosit on may reveal a degree of mobility in the shadon which would be impossible if it was east by a calculus in the urinary tract Pelvic phleboliths are al o comm als demonstrated in roentgenographs A single shadon associated with hamaturia suggests

Whene er a shadow of doubtful nature is pre sented the introduct on of an opaque ureteral bougie will sho its relationsh p to the course of the urete or the renal pelvis especially in a stereoscopic picture Blockage of the passage of the bougie may be due to a calculus. If the bouge can be passed and does not d place the sh dow the latter may be due to a calcareous gland adherent to the ureter The injection of sodium bromide through a ureteral catheter will distend the ureter and renal pelvis and the eb how a shadow in the renal pel as or ureter or a st ictu e of the former or a dilatation of the It will demonstrate all o the relationship of any shadow caused by les one outside the tract Its distance from the urcteral wall may indicate a possible c use of the hæmatu ia

Some stones are not demonstrable by roentgenog raphy Among these are the pure unc acid stones Ren I stone he within the pelvis of the kidney or in th calvee and cau e symptoms e rly th ough dis tertion of the calyces i thout altering the shape of the pelvi This ballooning of the calyces is charac Prelographic shido is due to obstruction of the ureter o renal pelvis by some lesion outside of the tr ct demon trate listention of the renal pelvis with ut n ol ement of the calvees as in movable kidney congenit I hydrorephros s hydronephrosis due to aberrant ves els a d even strictures or deformitie of the preter from the adhesion of cal c cous glan is or the appendix

It s emphasized that in cases of multiple calculi a roentgen gram may not show all of the stones that are p esent

Severe hæmaturia is suggestive of a neoplasm especially if the bleeding is unilateral Simple roent genography may reveal a large kidney. In the ab sence of bleeding an investigation of both kidneys may be necessary Even in the early stages growths of the renal parenchyma have a ten lency to bulge into the renal pelvis rather than to extrude from the hidney surface thereby splaying out and clongating the calvees in a 1 shaped form In the later stages growths of the renal pelvis tend to fill up the pelvis and prevent the introduction of fluid. In the early stages an irregular filling defect is suggestive of a papilliferous growth Sometimes such growths are seen in the bladder on cystoscopic examination

In addition to the bleeding there may be pyuria due to the causes mentioned. The isolation of the infecting bacteria is nece sary. The nature of the micro-organism may indicate the type of the renal lesion. The renal lesion may be secondary or primary The finding of the staphylococcus prog enes aureus may indicate a renal infarct secondary to furunculosis Typhoid infections are common The finding of the tubercle bacillus or a positive inoculation test for tuberculosis may reveal the nature of the condition

Bilateral renal tuberculosis is not amenable to surgery but in unilateral involvement surgery i possible Cystoscopy is an important aid in deter mining whether the condition is unilateral or bilat It will reveal congestion tubercles picers ordema dragging of the ureteral orifice upward or rigidity of the margins of one ureter Bilateral involvement of the ureters does not necessarily ind cate bilateral renal involvement a later examina tion after a period of rest may show only unilateral involvement. Occas onally the bacilli are found in the absence of any indication of the side of the involvement Cathetenzation gives the necessary proof the presence of a purulent sterile urine on one side only may erve as an indicator Roentgenography may reveal caseous or calcareous deposits. I've lography may be tried but is not entirely harmless It ria) show an irregularly shaped cally or an irregular margin to the renal pelvis. If all of these investigations fail renal functional tests may be appl ed to each kidney In the absence of macro scopic lesions however the diagnosis of the site of a tuberculous focus in the urmary tract is very diffi

Acute non tuberculous infections of the urinary tract are usually diagnosed easily. When there is kidney involvement the vesical symptoms are the most evident but in some ca es there may be few symptoms except fever and urinary infection determinable by urinalysis Bilateral infection is presumable evidence of a generalized infection but obstructive lesions such as enlargement of the pros tate urethral stricture fibroids pre nancy or inflammation of the tubes should first be eliminated as causes A unilateral infection although possibly of like origin is usually due to some localizing fac tor The obstructive lesion ho vever is not always

nervous astem who I produce the constitut lettre te micturate

Clim ally a lo of function of the pel no nerves pro lucing the syn frome lescribe larises not uncom m nly after laker often in incarcerate n of a grave i uterus an l oces i nalls f llaning pelvic operat ons parts ularly excit n of the rectum In the two former a ni ti ne ther sans wiluti n of c ntimuity of the two nerves an I recovery occurs after rel ef of tlegre ure Intlelatterense when the injury ba been tilateral py I nephrit s commonly leads to

death After his in fit this to nerves cats mic turate at before but they have m re or le a incon timence estimated by the escape falew imps f uren when they make a tra nine muscular eff et s r i al operations injuring these nerves, such as external urettest my may p of ice such an incon tines e lut it it n t settini. When the crossmal urell ra t lestroyed luring supracul c pr tates tomvant x a i nelly is prostat caup purati n any perineul procedure after eith r of these which involves the compresser urethra I likely to be

I limed 1) permanent inconti ence I prost t' alecess occurring a maneously la a fairly frequent complicate not central personales in a travolving the rule nerves or the roriem siece the urine is hell only by the compres or urethran suljecting the open are of the prostati facts to intravesical pres a e The same is true of urethral tri ture. It is very rare in a nile enlargement of the

or state because the open ngs of the pr stat c ducts

are I tal to the obstru tion During the time experimental work all I the I real spinal r sots were livile! The resulted in retention of urine with overflow incontinence Lesions of the muci as merit cane of the thatler scur often with hamaturia. The urethra rem les away and is n t passed voluntarily in fets. This on litin is found in tabes and if the I case is complicated by a print tic al sees perincal frainage will result in an external fistula lue to the posti e pres ure of the urine in the bla ! ler a con lit' n that can be fealt with only by a permanent suj rapul'e

cs t toms Other experimental observation on mi turit on have been succes fully performed on le erel rate cats If the Haller is I sten lel with water 5 red x m ctu ition occurs It can occur spontaneously with ut any ipi reciable re idual urine if the anim ! is kept above () careful reful t n f r a suff ient length of time. Mi turni n will take place th n in the absen e of the parts of the brain in front of the fucly constant of ne of leverebration which gues through the superior oil cult d really and through the crura at the superf isl origin of the third nerves ventrally

The p the of the micturation reflexes were letermine i in I erel rate cats by tying a cannula int each ut en i f the orethra divi led pr ; ma ly to the ompressor arethra and observing the varying conditions by means of a mater manometer connected with e ch cannula Mctunt on was f un i to be compare leffi e reflexes as I llowe

1 D tention of th 11141 r gives rise 1 strong contract on of the Hadler Hott efferent and afferent paths are in the pelve nerves an I the ref' x is attuate linth I nilran

2 Runn ng water throu h the ureth a gives nice to strong to tract on of the Lia lier The efferent path is in the pelvi nerve the flerent in the nu h an i the reff x is in the bin i lealn

3 Distention of the urethra between the internal mextus an I compre sor methre gives rise to we k contraction of the Ili lier Rothefferent an laffe ent path are in the hyp tric nerves an I the reff x in the cor l

4 Kun ung wat r through the urethra give me to relaxat on of the u ethra. Both paths are in the sidienerse and the redex in the cort

5 Distent n fth 11a11 gives rise to rel x tion of the urethra The efferent path min the pui nerve the aff rent in the pel ac an it! red a in the

tord The author gives a 1 t Ped phy of goal post t on of the relate n of these refleres and their

cl tcal app tion The ene ent paths of m cluntom are in the d real rarts of the lateral columns of the spinal co 1 1s

mictu ition is affected in kit at raple na fiagnostic errors may occur if the patie thappen also to have an enlarge i nontate The mictures a centers in the hand brain of the cat were I und by m and of the stereet constru

ment of Clarke They are located at the anterior end of the hind bran just central to the internal e lees of the asperior e chellar pe fun Is In man pontire glomata may affect the my funt on center The art eleconta as scomp ehen 1 eb bliography

AL PIRIT MD

J Li Tielle of M Jern Methol of Ball W C

In estigation in ti e Di g is at d Treatm nt of flamaturia / / p 7 cmi 474 In hematura the b ced ng may be mi roscopi

severe enough t 1 sc for the urin When the urin is decol relithe microscope should be used to deter mine whether the 1 scol rate n is lue to blood o some other p gment. When t is fue to blood the site of or gin f the blee ling must be determined (in lust no fa n from gr s n pect on of the n the three gla test are often inse Lette and ur to The e s tion of th Heeding after strigatt n of th ti tier a exests th t a ren I lesion is responsib whe ers persi tence f the bleeding int cates that the cau e is a scal les n The passage of bloot It (ureter I cat) suggests that the beeding to of ren 1 gin Cener I constitut on 1 li exes a ocatel th han atu ia m st be ruled out b t t of renal fu ti n ni exampration f arteral h se arti les on hæm i h ha scurvi etc It must be forne in m nf hos er that both a con tituti nal di e and a local ge it umarv

SURGERY OF THE BONES, JOINTS MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

E ostosis R d ! gs 19 7 \ Meyerding II W

The author emphasizes the value of roentgeno grams taken at ri ht angles to determine the exact size site and structure of a tumor of bone Expe rience l roentgenologists can accurately diagnose an osteochondroma commonly termed exostosis By means of roentgenograms valuable information as to the relationship of the tumor to surrounding important structures is obtained and the differen tiation of local and generalized types of benign and malignant tumors 1 po sible The amount of bone and cartilage in the tumors var es con iderably Usually there is a cartilaginous cauliflo er like head surrounded by a bursa which I hen injected ud lenly enlarges This enlargement is not infre quently m taken for rapid growth of the tumor and sometimes for malignancy

Meverding has rearranged the clasification adonted by the Clinical Pathological Association and the Sarcoma Registry so as to lead from the simple inflammatory lesions to the malignant and

metastatic groups

A series of 26, cases of exosto is ob er ed and treated at the Mayo Clinic is reviewed. The diag noses ere erthed by path togists. The average age of the patients vas 27 yea s. One hundred and fity patients were males. Alth ugh hered to is an acknowledged etiological factor in exostosis atten tion 1 directed to the small pe ce tage of the patients in this group who gave a politive history Only four I them had noted similar conditions in their fam hes. Twelve gave a hi tory of arthriti-Other in idental Is ea es were rare Thirty nine pe cent gave a history of injury in the region of the go th but in the author's opinion the injury merely called attention to a pre existing tumor hich had n t bee n tel Meverding believes that here lits an I metabolic d turbances in childhood re the mo t mpo tant f ctors and that trauma 1

i le imp rtan e than the h stories uggest The age n idence of exo t is is similar to that of ar oma of the I ng bone practically 80 per cent of ex t es and 5 per cent of bone sarcomata cur ing bet een the ages Is and so years The h trituti is al > simila Thi similarit is shown in a di gram Th tumo s in each group a i e most ommonl be ut the knee and houlder especiall in th lo e nl of the femur an I the upper end of the hum rus In the cases of exo tosis reviewed s to fi tumors ere found in the ferrur thirty I u in the t be the t n the humeru n I twenty six in the foot

The symptoms were usually a painless syelling and deformity Stiffness of the joints was rare Forty five of the patients complained of dull pain which occasionally became harp. The Wassermann reaction was positive in only two of 189 cases Usually slight tenderness was elicited on firm pressure The skin was freely movable because of the formation of bursar There was no local heat and venou congestion was rare. The tumors were usually ha d and fixed

According to the reentgenographic findings of exosto is the corti al point of origin is in the di aphysi near the epiphyseal line most commonly in the lower end of the femur and the upper end of the tibia and humerus The ba e of the tumor varies from a narrow to a broad pedicle and the tumor ranges from a bony projection to a pedunculated mass of varying size. The cortex of the bon, and the pedicle of the tumor may appear to be continuous A cartilaginous cap is common frequently this has a cauliflower like appearance. Inflamed The tumors bursæ may produce distended sacs may be local or general There is penetration rather than invasion of tissue \o absorption of bone occurs unless there is pressure on neighboring structures The p riost um is expanded over the

tumor which usually occurs away from the toints The treatment of these tumors is surgical when their presence causes deformity or pain Cauteriza tion of the base and the n e of a rubber tissue drain is advisable. In cases of sin le tumors the prog nosis is good. Of the patients heard from after being dismissed from ob ervation 75 per cent reported themselves cured There was no surgical mortality

Hadiopoulos L G and Burbank R in ry Study Bearing on the Specific Causati e Factors of Mult ple Infecti e Arthritis J B - J 18 g 1927 t 278

Experimentation on animals with the intravenous injection of a valety of streptococcus caused septic joints rather than chronic arthritis Blood cultures from patients with arthritis were negative but hanging drop prepa ations from broth cultures

stone i a streptococcus like organism When an alexin in the freshly d win blood of a

group of patients with arthritis had been neutralized to per cent of the ca es howed a growth of strep tococci When rabbits guinea pigs and mice were injected with strains of the isolated streptococci they developed the symptoms of chronic infective arthritis with the usual roentgen ray findings. The primary cause seemed to be a highly selective group of streptococci A secondary role may be placed by bacilli and staphy lococci W P BLOCKT MD

lemon tribl as in curly he bronepl to is with a movable allnes or an alnormal renal vesse! The a octated fact e also may be within the tract or

nut : le of it (appen i g or col n) linen us of es ential D al pathe I rmaturia i n i as common todas as f emerly since with m re accurate means of investigation a me te por il le fact y such as chroni n' rhritis le u unit I und H ever th re are still a number of ca e of hematuria in which role on can be fur t in the kilners Some cases are explained by the present of minute next. These may be mi selly ne observer and f unit ly another As a rule such

les n a motherer gal eddelore perst n With the allearce in lag is his e me a cor respending all ance in treatment. A ston in the rathy rive infirmation as to renal truck nan f the al 1 at flit; of repertors The renal func ti nal test are also of great value in prostatic ent re mert. The falag of hi frozent rost enal es us t in titute earlier interventli n so that & me of the kitees may be sa ed by timely operation I vel grills on kespo the the lign and of malg a litt trity the fulguration of sail us turn rs the pa ge il ugi si ethe et ! a ol ur teral cal cul ant latherms ; ocedures f r tle destruction I ports as of the pre tate have re luced the overa

tive metal to of the en atin I I SE WELT MD

bereit P &: The Cente I f Celnary Hem e 1- 11 1 11 4 97 th ce CI

Fernic sa s th t while the c fr I I umnary I am erhage is oft n imple there are instances whi h tax the re sur es of the most skil ful surgeon (I tting power may be at I ult There may be a deficiency of calcium prothromlin platelets or to ue ju ce so called thromboking e If calcium is licking a for example in hr ne jun lice the a lmin tration of to com of to per cent cal sum cilim te intravenou ! on three succe i e days will testore the el tting power. The emmin practice of giving cal jum lactate by mouth is a effect we becau e little of the calcium o piven is absorbed. In hamothila t other min i la king. In pur pura the plitelets are deficient. These may be supplied only in blood or to ue juice from an ther

The clitting po er may be rais I above the n r m I by increising the thrombolic ase locally r generally It may be done locall I queez Lout the patients own tis ue juices thieser a lisses massaging the pro tatic cap ule after enucleat on) by heat by tran lanting mu cle tis ue or be apply ing cephal n or thromb pl tin for gen r bacti n the cephalin or thromt plastin may be injected a bcutan ou ly

In all ca es of ser ous ham than s thood trans fu n is in lett 1 b. th to replace the 1 s of floor and to n o 1 te clotting. In leurable reactions are fewe ti lio ing the u c of whol ll sod

In thee in from p el tis the injection or silver ritrate soluti in up to 5 per cent is effective if combined with the liminat not local infection and the

correction of faulty drainage In ca es of bl edin fr m the I wer urinary tract

In which the leagn cannot be remo ed rist the use of the in! elling catheter e ntinu us two-way frn at on with a i 13 000 her nitrate solution and I lgurate n or hathermy are to be e n i lerel In p te of its I mitat ons in the cure of mal gnancy the blaller and prost to radium i invaluable f r tle arrest of hem rih ge Deep \ ra theraps is Larry Gr as VD also u ef 1

dig t from a eptic chemi il ne rosis. Up to the pre ent time about sixty cases have been reported the majority of them being in Germany and Aus tim. The condition was first described by Erdheim

ID 1020

The suon is entitly a pecrois from the action of the methot, whele do which is present in the form of the brokenoff point of the pencil or as non-particle which were scattered through the tisses either at the time of the injury or in attempts to extract the pencil point with forces. Then cross is aseptic no organisms have been cultured from the lesson. There is a zone of cellular disin tegration surrounded by a zone of cellular disin tegration surrounded by a zone of certain in which nolly a very sight heucocy to infiliration can be

Et them. Grass kru er Torra a and others have done ome experimental work on the effect of the two the traces. They found that its action 1 not stopped b the simple removal of the small bit of the pencil point in the tissues. As long as an colorate n 1 pre ent the necrosis continues.

The ondition becomes manifest a variable time after the accident Following, the temoval of the fore gn matter the wound will not heal the sutures separtice and allow the discharge of a clear blue serum. In some cac e the celliant destruction goes on under the skin bind there is a collection of blue fluid which produces a fistulous track though the Min II tadical treatment is not given the necrois in object the tendon appearup is and bone

A a rule there is n it much general reaction and the con fution tend to remain localized but German surgons have described a mild general reaction that active and by a short period of malasse largue? Is so appetite and headache G renmei ter reported a case in which junified evident gastro protect a case in which junified evident gastro months after the patient left the bospital. The col ration as most apparent in the comjunctive and via associated with a fever of tor 3 to 102 a degrees F and as all pits leucoctoss. The reaction was attributed to the action of the analize due to the high experiments.

If the condition is untreated the loss of the fin er

Glas ha reported two cases of necrosing pana

it um a similar cond ton due to aniline die. The pati nts vere roung women i ho had dipped turs nto a die bath with thei hare hands. The die had entered the tissues through minute scratches in the skin at the base of the n is

The t eatm nt of an line die poi oning is surgical

All of the tissue colored blue b the die must be emo et. The peripher, of the wound, should shows a blue color is just as dancerous as the original foreign matter. If the bone has been affected, and is colored it must be curetted. After the operation on the bone the use of the ultraviolet rays may be I e effectal. I Selin reports a case of his own and reviews a

number of others Vicutate L Victor VI D

hahn M and Cohn L C The Diagnosis and Treatment of Bone Lesions of the Hand and Foot with Special Reference to Bone Tumors Radiology 19 7 4 289

The atticle is based on the histories reentgenong mans and gross and microstopic percense quelyts and cases of long leatons of the hand and foot seen at the John Books in Hopstall Ballamore Free pathological methods in 1845, the Cases was the pathological methods in 1845, the Cases was past cell tumor in eight my soma in six observations in 1845, the case was past cell tumor in eight my soma in six observations in 1845, the past cell tumor in eight my soma in six observations and some sacroma in two externights in the pathological lined cy t in two hymnogoma in one and osavine humatoma in one

The diagnosis of the largest group the exo toses or osteomata i rarely difficult. In osteomichtis of the hand or foot the findings are the same as in asteomyelitis elsewhere in the body **Epithelial** lined cyst hamangioma and ossifying hamatoma present no positive clinical picture nor characteri tic roentgen appearance. The recognized infrequency of sarcoma distal to the wrist and ankle was again demonstrated in the study. Attention is called to the fact that chondroma my roma grant cell tumor and osteitis fibrosa give no characteristic roentgen findings upon which a politive diagnosis can be From the standpoint of treatment it i especially important that mytoma be recognized by the sure on as the use of the cautery offers practically the only chance for the cure of this ADDITION HARTING M D

Cochrane W. A. A. Consideration of Backache from the Orthopedic Standpoint. Ed. bi. fi. M. J. j. o. 7, xu. Med. Ch. Soc. Edanbu gh. 61. Cochrane W. A. A. Demonstration of Method. of Examination of Cases of Back Strain. Ed.

b gh 11 J 29 xxxx Mel Ch Soc Edn
1 gh 79

Cochrane considers industrial back injuries from the following six an les

I The anatomical type of the subject. The slender hypermoble pines with small vertebræ and flat articular facets cannot vithstand the stress of heavy work. They frequently have a high fifth

lumbar vertebra or six lumbar vertebræ

2 Back pain arising during light or heavy work

in persons i ho use the body in positions of mechanical disadvantage. In Rives the important factor is tien the throun lumbosacral or sacro iliae strain of poor posture. In acute traumstic as to that strain any diplacement is in the nature of a rotation which il it is revealed in the contengoram at all appears as an asy mmetry, at the pubs.

3 2 resistent pain in the lumbosacro iliae region.

when the roentgenogram reveals no evidence of a grosslerion. Most of the e cases are due to persist ing extrinsic lesions 10 muscula or aponeurotic strains.

4 Disproportionate pain induced by trauma to a spine with a pre-existing symptomless arthritis

5 Anatomical variations in the lumbosacro iliac

liibbs R A Some Aspe ts of th Problem of Joint Tuberculosis 5 th M J 1927 xx 278 The hea York Orthopedic Dispensary and Hos ital with its Country Branch established twenty two years ago is particularly well fitted for the long time treatment and study of cases of joint tuber culosis

Hibbs had made an end result study of twents seven cases of knee joint tuberculo is which were treated at the Country Branch and ha e been under obs evation for from five to fiteen years In ; per cent of these an incorr ct diagnosis was made and in seven cases death occurred from some other form of tuberculous In forty three of the knees the condition became quiescent but in sixteen it a ain became active. Of the twenty seven in which it remained inactive the joint is stiff in five and has varying degres of motion in twenty two final result of the conservative treatment in thirty three tas a was active disease. So teen of the patients were subjected subsequently to perative fusion of the knee and then remained fre from symptoms

The average length of conservative treatment in these seventy-seven cases value a mad a half years and the avera e period of observation as ffteen

3 ests

The results of conservative treatment of tubercu losis of the hip at the Country Branch are still less favorable. In the period from 1904 to 921 209 cases were treated Errors in diagnosis were made in forty six cases O e hund ed and tifty patient nere observed for fr m three to fifteen years. Of this number thirty six ded twenty from tubercu losis six from other causes and six from cau es unknown Of the 114 other cales the condition 1 still acts e in seventeen qu'escent with free m tion in two and ou escent with limited motion and varying degrees of deform ty in forty-one a erage duration of treatment in these 114 cases was seven and three t nths years. In eighty cases an operation for hip fusion was do e a cur bei A obtained in a high percentage Tub reulosis of the joints of the upper extremities has a bet er pronosts as these joi to are subjected to le s traumatism than those of the I wer extremits

This study seems to offer convincing evidence that our conception of the cure of jo nt tuberculosis must be revised and our methods of diagn sis per fected host of the studies made upon the end results in the treatment of the disease are unreliable because of errors in d ig osis and because of failure to observe the cases over a long p nod of time In cases that ha e been classified a cured a r lapse may occur ten fifteen and t centy yea s

after the discontinuance of treatment In the author's op mon there is no evilence as yet to p ove that heliotherapy has a y particular favorable influence upon the pr gress of the disease and the belief that it does may delay the proper

study of the condition fo some time NORMAN C BULLOCK M D Cars en and I ecène Two Cases of Rupture of the Tendon of the Long He d of the Bleeps (D ux a s de ruptur d' l'ag b ceps) B il et mêm Soc

This article reports two cases of rupture of the tendon f the long head of the bic ps one of which was treated surgically The surgically treated case nas that of a man 6, years of age who while engaged in heavy n rk to which he was not accustomed suddenly experienced a marked diminution of the noner of flevion of his right forearm Exam nation sixteen days later revealed a small area of ecchy mosis on the outer and upper surface of the arm and another on the med al and milerior surface. The short head f the biceps se med abnormally prom in at shile the long head was retracted and formed a voluminous mass in the let portion of the arm In the region normally occupied by the long head of the biceps there as a longitudinal groove in the depth of which the humerus could be palpated In the lower port on of the groove there was a tender immob le cigar shaped mas which evidently repre ented the ten ion of the long head with con

tracted seco dars attachments A the loss of strength as sufficient to interfere with the pat ent's work operation was believed to be ind ated. An incis on was made along the antenor border of the deltoid directly over the abnorm I depres ion referred to The tendor was found to la e retracted out of the intertubercular groove and to be doubled b ck on it elf. The end of the tendon was soft and white having the angear ance of an articular foreign body. To d scover the upret fr gment of the tendo a very small inc sion was made through the deltoid and di ectly between the greater and losser tubercles. As the inter tubercul r groove t this point contained only a ayperami fibrou strand the tupture was er dently intra articult By means of a forceps pass d th ough the upp r inci ion and the tendon sheath the tendon was drawn up between the tule cles where the end was sutured to the filrous tis ue on the anterior 1 p of the groove A loop made by plicat up the tendon was then situred to the aponeur tic investment of the deltoid. This gave to the te don is normal tension

The patie t made an unevential eoe; with

almost comple e restoration of funct on

The other ca e reported wa of a man 62 years old The r ptu e of the tendon curred while the patient as r king an automobile. The physical findings w re mil r to those in the first ca e but as the d abil to was e y slight no treatment was gren

Iselin M Injurie of the Hand and Fingers from Indelible fencils Aniline Dye (Le ber resde ta main tid a digit pa a 9 7 TEV 457

Injuries of the fingers from amline (indebble) pencils altho gh not very common are impo tart as incorrect treatment may result in the loss of the the care in which the period of dialities is known

it average I ffteen weeks

I neuros s was diagno e l in eleven case (i per cent) The fun lamental con lition in the e is a r ler of con lu t occurring in a person wh i learful or de ati fie i an I seeks compen ati n The diagnosi can be made only by exclusion. The greatest difficulty is met in lifferentialing a true neur sis from malingering

Malingering was chagno el in thirty five ca es la per cent) In ninety even ca e (to ter cent) the condition of the back cemed to be entirely

attributable to 1 ea e

Variations f om the n rmal in the pine occurre! in 48 per cent of the cases in the 1 solumbar region and in t 3 per cent in the lumbo acral region The importance of the e anomalies has in their ten len v to eaken the mer hant al tructure of the lack and thereby pre h po e the pine to injury nd I las to r covers from injur

Cl onic St ain f the Lumbar (arnett J B Spine and Sac offic Jints 1 5 g 92 500

Every diagno tician i familiar ith the fact that vst mate palpation of abdomens reveal deep te lerne in a fairly high percentage of ca es This ch onic midline tende ness is attril ute! by the au thor to a chron prain of the vertebral joints It persons in whom it is foun [are of the a thenic t pe and suffer ir m vi eropto is and exagger ate I lumb r lordosis Under uch con I tions the po tural stre s annot be adequately met by the t nic muscul ture n i the ligaments or their peri teal atta hments are subjected to undue

The tendernes m s be present even before the I teral roentgen gram ho s lumbar I r losis. It is m t easily demon trable a couple f inches above the umb licus where the conventy of the lumbar to to 5 mo t ne ils approaches the anterior parietal wall It stend down to an i includes the sacro lumbar j nt Tenderness f the superi r sacro ha 1 nt 1 locate 1 in a 1 ne parallel with and about t in was fr m the lumb r verteten and extenus ir m about the level of the anter or iliac so ne up w dir d ta ce of a n On the right side thi a ea of t n lern ss m t be d fferentiated from that f pend tis I J Corre B M D

GraCL nd Masucci A I Suppurati e Arti iti of th Hip in Ea ly Infancy (La md 97 x 513

report s lase l on t enty-one operative a e of supp r tive a thritis of the hip in children O the bass of the et ology the c ndition in child en unde 2 ye r of age is classifie t as follows Supp rative arth itis f om d rect inoculation

a by tauma Meta t ti suppurative arthritis from an a ute infectious di ease

3 Suppurative arthritis secondary to osteomye hti of the hones forming the hip joint

The en et of the con lition 1 usually sudden with inten e local pain and fever. The local symptoms are often preceded by general symptoms in the most scute ca es the temperature is high and shot s the fluctuations. The earliest local symptoms are t ain and tenderness especially upen manipulation ell ng develops quite rapills with re iness of the serlying skin Inguinal a lenopathy and flexion of the hip often feyel p

As soon as the liagnosis is made the hip junt houl ! be immobilize ! an ! a cour e cf polyvalent autiny ocenic vaccines legun. When a collection of t us is recognized it should be evacuated as other the extensive burrowing may occur 1 piration and puncture are not suff cient Interior and sterior arthrotomy with drainage are more effective Re torati n if joint function hould not be attempte I until the infectious proce a has entirely BRITINE MOTER MD alsa le l

liqu t 3 and Mouci et A : Certain Types of O teoms liti Simulating Coxalgia Arti ritis of the Hip Following O termyelitis of the Upper Ind of the Femur with Extra Articular Localization (1 p | 18 1 c tt ne f mes lote mylite m inti c sale le arthries d I ha ch c & ut es ux orlfom (I tes d la part e per ut I femura loc I tin tr ri cul re) Bill 1 mlm Soc n 1 d k 927 (

I must d scribes the clinical picture observed by h m in twents ca es of arthritis of the hip following extra articular ostcomyclitis of the os innominatum or I mur In the majority the condition occurs during teomyelitis in the upper en l of the femur te a a trachanteric or high diar hyseal infection The infection reaches the joint by slow infiltration of the ti sues The atthritis comes on late a neck or sen several month after the original bone infection his course is chronic and sloy ly progres sive and thally end in ankilo is if treatment is nyt g v n

The on et of the o teomyelitis is more or less acute In the more severe types the pain is sharp and the temperature rises to 101 2 to 104 degrees F If the focus of the infection is then not veil opened or 1 allowe 1 to ru; ture spontaneously the develop ment of arthritis i fa ored. If the osteomychitis is allowe ! to become chronic the joint is sure to be com involve l

The resulting ankylosi may be fibrous os cous or due to the farmation of a peripheral circle of osteo; hytes Complete ankylo is resulted in five of the c ses reviewed almost compl te ankylosis in six and slight ankylosis in five In four there was no loss of function in the joint

The treatment consi is in proper treatment of the original bone infection viz ample drainage Opening of the joint is not necessary unless suppu ration occurs which is not frequent

MICHAEL L MASON M.D.

region in relation to acci lent an Lingur, to the lack. Ma asymmetrical arrangement is executelly, a goor mechani al arrangement in I likely. I may not use the test turn of beavy wir. I he comm nik existing hursa letween an enlarged lith lumbar transcene groces and the top of the acrum an ia semi veral seal lith lumbar vertel re ar very subject to strain. I accomplete el ure of the punal arches

r Juna bilita occulta in the prenar of por holy mechanics execute lumbar l'rl i and forwartillang et the jet is leprises the spine of the support of the impingement of the pinous process of between the fifth and first sacral vertelrar thus throwing increased attain on the looket home acrossible points.

6 The mental problem

Case of I ck str in are liviled into five gr ups (1) acute traumatic strain 60 per cent (1) general postural strain 20 per cent (2) lamks sacral strain 12 per cent (4) acro il t strait 8 per cent and (5) condunel incluse input strain 2 per cent and

(5) combine I pelvic joint strain a per cent.

The conclusion i draw that injury of the back is often inly one fastor in the problem and that injury and strain are and to be the fast hish in a chain of ph. cell unsuiral dit poor both mechanics and py this antiomical variations long standing teas or fracture of the same.

In discusing the method of examination which in the time of 1 stating is necessed back strain Cochrane emphrises the importance of an exict history. The fit can should be questioned regarding the mile of onest of the condition and its immediate and little simploms. The chief determinations to be made in the examination are the

foll mang

I He holy type and the general tatics of holy potture. For a need hold mech it is and potture have an important et logical and by good tic ignificance. He po ture in sacro-itiac strains is chiral ters to:

2. The lumbar curv. The is usu the exaggerate!

2 Th lumbar curv Th 1 usu In example 1st in static at n emaint 4 in hich it ere has been no trauma and is flattened in ea es of infrim ic le ions castic 5c lio 1 and injuste pa m due t injuries

to the muscles r aponeuroses

Lateral deviate no of the olumn. The e-maile merely attitudinal as in minequality in the length of the legs tempor ry and positional as from muscle spram or lefine and five lass from structural abnormal ties or deas. An e-amination for texts not the pine should also be made

a stavation and it troution of pain and ten if the an althorprises of all ence of musted pain 5 M ements of the pine. If me or ments of the pine it is a more of the pine i

takes place in the hip joints and of n lumber region while in sacroid at E. in the pit ent first fixet the lumbar spine continues the movement by thing the pelvis until the him strangs become tast any then fixes the knees. In lumbosacral tast on the time of time of time of the time of time

6 Other determinations. Mucle atrophy sho II le noted the reflects and en ation tested and roentgen grams made. Rise I like to y M.D.

Herndon R F Back Inj rles in Industri I Fmpl yees J B - J iS t 9 34

Heral n reviews out cases of back ing r. in instinal employees. Sprain occ tred in add cases (33 per cent). Two this is of the prains occurred in the lumbs acraft regin and about a four thin the mill leant upper fundar r gion. Youth half employees the mill learn to prepare the mill the mill learn to prepare the mill learn located centrall. The average period of about 10 mill systems or misch his thom a was fix executions of the mill learn to the mill learn to have fix executions of the mill learn to be cases of the learn the mill learn to the cases of the learn the mill learn to the cases of the learn the mill learn to the cases of the learn the mill learn to the cases of the learn the million to the case of the part of the part

Confus ons occurred n 112 cases (13 per ent)
The average perish of dividity as bout e n
ecks

Fracture of the vertebral pro e se occurre in often one cases a per cent) in thirty as e the fracture favoid e i ne or more of the lumitar tr as et e processes Fractace undo ing the third vertebra were the most own in In about hill of the exsess the rate undo many the large pall and in about hill to deet i lence. In the I mer alm a fall of the fregment were well-separated while in the latt in rethin appreciable placement as a case with ut much be a considerable as a case with ut much the considerable and the considerable as a case with ut much the considerable and the considerable as a case with ut much the considerable and the considerabl

nt cement sho ed e id nee f call s fo mation and union after from one to three m nth. In s teet ca earn hely the peri dof di able. as kn was it

averaged the ty fur el

I ture of the estelet 1) less ou ret in that est (per cent) I so per en the loce ausing the fricture as applied in letth the main in stooped powers. In the dother has in a stooped powers I are there or there is not not not considered the letter of the main in tent I in a patients or it letter I cord in I cannot I in a patients or it letter I cord in I cannot I in a patients or it in from a considerable of the problem of the main in the mines I in e is with the problem I do I in the main in the mines I in a get 1 thirty four w is a get 1 thirty four w is a part of the mines I in a get 1 thirty four w is a part of the mines I in t

Chroni deforming arthrit a full sognasses (is per cent). Spin i clot la e lamaged tructle, e thim tin nl through limit day slight injuites e m cripablo of increal githe lotal activity of the proce hit is no cell beyond the limited art may hive thou nequences In

lumbar vertebra upon the sacrum and displacement Textbooks of the fourth lumbar upon the fifth state that operative measures are of doubtful value The author gives a brief review of the anatomy

of the lumbosacral joint. In the cases studied by him there were certain anatomical variations such as an incomplete neural arch bilateral laminar defects asymmetrical articular facets and in creased obliquity of the articular facets which seem to have been factors in the formation of mechanically imperfect articulations

With two exceptions the condition in the cases studied vas due to severe trauma. One of the exceptions may be explained by Lane's theory of prolonge i physiological strain and the other by

gradual development

All of the nationts were totally di abled by weak ness or stiffness of the back and pain but a po itive diagno is cannot be based on the clinical symptoms alone. The condition cannot be demonstrated con clusively without the assistance of the roentgen

A soint which has been dislocated partially or completely must be reduced or fixed before any d cree of function can be expected Attempts to replace the vertebra by pelvic traction with counter traction on the head are usually unsuccessful. The next most logical procedure then seems to be fixation

in the position of displacement

I umbo acral fusion by the Hibb's method offers I w tech ical difficulties and in due time give complete f xation. In the repair of defects in the neur I arch the procedure may be modified by the use of the st mous proce ses of the third an if urth lumb r ertebra as grafts Tusion of the fifth lumbar vertebra to the sacrum a sufficient unless there 1 a d placement of the fourth vertebra in which cale it seems safer to fuse the fourth lumbar ve tebra to the fifth and the first sacral seement The operation should be followed by three or four months of recumbency on a Bradfor i frame or a h d bed with the application of a Taylor back brace

The author reports on nine indisputable ca es of pon Isl I sthe is Eight of the patients were a jults I six of the adults were males Six of the adults ere treated by operative fusion with successful In one case reduction was effected by manipulation. I'vo cases were untreated

NORMIN C BULLOCK M D

Obe 1 R An Operation to the Relief of Paral is of the Cluteus Maximus M scle J im q 7 l xx

The ope att in described in this article is indicated in paraly is of the gluteus maximus muscle and paralyte de locat on of the hip It has been per med by the author in fficen cases with good r sult Th ugl long inci ion parallel with the verte

fræ the lateral half f the erect r sjina aponeure is is separated from the inner half and from the ilium

A long strip of fascia lata is then and sacrum dissected free through a lateral thigh incision the upper end being left attached to the tensor fasciæ late. The strip is threaded through a hole drilled through the femur at the level of the attachment of the gluteus maximum tendon The long end of the fascia is then passed up over the gluteal fascia and sewed to the erector spinze aponeurosis power in the tensor fasciæ latæ is absent the flan pred not be passed through a hole drilled in the CRESTER C GUY M D femur

Brackett E G The Choice of Procedure in Recon struction Operations of the Hip Am J S re 1027 1: 216

Brackett discusses reconstruction operations on the hip in old tuberculosis and osteo arthritis of the hip and ununited fractures of the nick of the femur

Cases of old tuberculosis present two quite dif ferent problems one with reference to the mobilizing of the already stiff foint and the other with reference to the stabilizing of an imperfectly ankylosed joint The first problem arises in only the few cases in which the primary di ease subsided early before extensive destruction occurred leaving a true or a practical ankylosis vith firm bone both in the joint line and the surroun ling areas and no areas of encap sulated di case. In such cases mobilization may be considered but in view of the always possible danger of opening areas that can rekindle the old disease and ir view of the greater security and permanency of a soli I union the procedure does not often seem to be the wie choice merely for the added con ventence of a definite degree of motion

The second problem with regard to operative treatment is presented by cases with a damaged joint well along in the quiescent period and present ing pregular joint surfaces with a slight amount of motion controlled by fibrous adhesions and sur roun led by areas which were the site of disease in the acute stage and areas of imperfect re-ossifica tion The author believes that the only true solution

in such cases is bony ankylosis

In osteo arthriti of the h p operation comes under consideration when the pain sensitiveness and restriction produce definite di ability such a joint even when it is the site of considerable pathological change undergoes periods of acute sensitiveness an i is painful on use is not of itself a sufficient justification for operation Many a joint so affected returns to a condition of usefulness with out pain and gives little handicap for many years Such a junt is decidedly preferable to one damaged b) both it ease and operation

The slen ler raref ed medullary bone does not offer promi ng material for the formation of a new head whether with temporary protective covering or not and is a d frite contra indication against the u e of the portion of the neck for a part of the

new joint as is done in the usual arthroplasty If mobilization is determined upon becau e of the

degree of disability occasioned by pain on use the

Arce F and A ce M Ti e Relati nship Between Infantile O teochondritis Del rmans of the Supe for Epiphysis of the Femur and Sub tion or Cangenital Di location of the Hip IR lac on e tre la ost oco lett lelo m nt nfa tidel epf i upen rd i femur 3 la uti sac E y est 11 027 vil 44

The conclusions in this article are based upon five en es of infantile osteochon lutis deformans of the hip The author believe that this condition is always a exciate i with congenital luxation or subluxation of the his In some cases the sul luxation may be anterior. The lesion of the epiphyseal line is as important as the congenital con lition diagno is is early made from the roentgenograms B th hins shoul I be include I in the him The con lition is found more frequently on the right sile than on the left but may be bilateral WILLIAM R MERKER M D

to get 1 The End Results of Imm bilization in Tilsiotarsal Tube culosis in the Child (L 1 im I lest a den L t be cul etl taru an d len I ltats fl g fe) Re d orth 9 1027

This r r brt is based on ninety-one cases of tibio tarsal tuberculo is in thil iron under 16 years of age who were tr tel in the pen d from 1808 to 1022 the end results kmonstrate that in early cases immobilization till result in a cure e en when there are se ere a seous lesions. They show also that facultzation is not in itself as unit orable a complication as a generally believe l

The ge of the ul sect is of considerable importance Lp to the age of 5 years imm bibertion is succe sful in 75 per cent of the cases and gives good function. After the age of 5 years it fails more frequently and after the age of 10 years the incidence of cure falls to 43 per cent

The cure obtaine I be immobilization i le ting In the cases residued a late true recurrence devel

ope I in only 3 5 per cent In conclusion the auth remph sizes that patients cured of tib tarsal arthritis b imm bilization vers often h ve excellent function in pie of lefirmity of the pint and that a thout loubt their con his n is better than if th y lad been sub secte I to a tragalectoms

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Tendon Transplantation (I) e S h lange T g) fotck d Th p 926 emfla

I ollowing Nikola lom's muscle transplantation to replace the lost function of anoth r mu cle Lange made the first tendon to asplantation for the same purpose in 1806 Through failures it became apparent that after the usual plaster of Paris treatment careful after tre tment with bandiges must be carried out over a long period of time if permanent success is to be obt ined. When there was failure in spite of such treatment the cause lav in stretching of the paralyzed segment of the tendon to which the tendon of the healthy muscle wa

sutured

The periosteal method of tendon transplantation was a lurther ad ance but was not applicable to every case as the muscle supplying the power was often too short to be sutured thre the to the penosteum Reliable lengthening of the shortened ten lon was obtain d by the development of the use of silk tendons a technique originated by (luck in 1952 an I later greatly improve the Lange The silk ten lon dies not disintegrate but heals in and be c mes surrounded by tissue resemtling tendon tissue—a word riul examile of what the human boily can do un ler the stimulus of function Fail re of this technique was usually due to the formation of adhesions between the tran planted to don and an immovabl tis ue such as bone or fascia which ma le impossible the action of muscle pull on the peripheral segment of the part

The pr blem then was to prevent the I rmation of these adhest n As most of the pat ents were thin it was rarely possible to embed the transplant in fatty tissue Biesalski s recommendati n to draw the transplanted ten ion through the tendon sheath or through a turned back flap of fascia had only a limited field of application I ange attempted to ork out a method that would be applicable to all c ses His re earth demonstrate I that a paper band serves well to prevent adhesions. Laper heal in Around it there firms a connection use such chieflet with paper mash flu I an I a I rge q antity of cells

f rm a sort of bursa

I trens e ne ments on an mal sho ed th t prechment paper is equally adayted t the p even tion of a thesi us and h . the advantage I being frmer and nore durable than or i nary p per If stologically its behave r diffe a fr m th t of the n per band in that it it es rot become d sol ed but rema as unchanged in the bo is and g es e to the f rmat n of a capsule of very thin soft connect ve tissue. This connective tissue capsule rem ins full mo able in relatio to the parchment paper il erebs preventing the formation of disturbing adhes as

's parche at pape h s been pr I the be t materi l'for interpo ition in ten i n tra pla tatio s t ndon sutures and operative j nt m bil ton I ance has entirely aban loned the use of a topl 1 materi I such a flaps of fat or laser Since making the change he has had a clessful res its n 90 per cent of hi ca es

The article is well illu trated

Het the . C D = (7) Wil n J C Surgical Treatment of Traumatic Spondyl listhesi J B e c Je t S g 0 7

1 346

The term spondylolisthe 1 m ans d spl cement of one vertebra upon another but has be lim t d dogmatically to anten r dislocations of the fifth The author reports this case because of its historic interest and as one of Lister's efforts to prove the reliability of his antiseptic system of surgery.

FREDERICK A JOSES M D

Rugh J T The Pintar Fascia A Study of its Anatomy and of its Pathology in Talipes Ca us A New Operation for its Correction

im J S f 97 397
The plants facus removed at operation in fifteen ca es of talipes cause was stud ed in six laboratories Accor lain to the reports in every case the uses showed chromic inflammatory changes of the unfil tritle type. We explanation for the fibrositis is given but trauma and infection are suggested as no able cause.

The author's operation for the correction of early claw foot consists in the removal of the entire plantar fassia and its replacement by a triangular hap of fat taken from the thigh. Rugh has rever seen sagging of the arch of the foot due to the removal of the plantar fascia.

FREDERICK & JOSTES M D

Mau C and Lauber H J The Operati e T eat ment of Hallux Valgus (D c perat e B b ad lu des Hall [ou] D ! k Zisck f Ck 9 6 36

The authors first report upon twelve cases in which the Schede op ration was done. In three cases the condition was blatteral. The ensotsoas we sche led away in at the same time an attempt was made to correct the abduction of the great too by tract on on the up of the medial capsule which was then suit of with the too is the extended posit in to the periot teum of the shall.

Most of the operations were performed three or more per sago and six were done about one and a hall vars a o Eight of the patients were re examined in the clinic. With regal d to the others only written inf mation could be obtained.

Ex mination sh sed that in all except one case the abduct on of the great toe had not been cor re ted. In fou the angle of abduction was greater than o degrees in six it was between 30 and 40 degree and in one it was 45 degrees. In a number of the a es th s r as firmly adherent to the project ng head. In one case mot on had been entirely lost in the pr ximal joint. In five cases the joint wa almost stiff In two moderate motion had been pre erved In three motion was normal In four exa t niormation with regard to motion could not be obtained In fou cases there was marked and in s x m derate metatarsal dep ession. In five no info mat on with re a d to this condition was obt ined The abil ty to walk was unsatisfactory in nine ca es sati factory in four and normal in two

F om these results it appears that Schede's operation must be egarded as insufficient

Hueter's method with resection of the head of the first metatarsal was used in twenty nine cases

A subsequent chincal examination was made in them, two Written information as to the end result was obtained in seven. In two cases the operation was done thirteen years ago in two eight years ago in two seven years ago in four two years ago and in the others between two and four

years ago
In six caes the great toe vas abducted more
than 20 degrees and in filteen there was adduction
of outdegrees of the was not obtained. The prox
real joint was quite still in ten cae and almost
still in three. In seven caes there was moderate
motion and in five normal motion. In four caes
information regarding motion was not obtained.
High grade metatarial depression was present in
client caes and moderate in ten cae it, in eight
of this continuous was motion to the continuous manufacture.

The continuous was not obtained
was not obtained.

The continuous was not obtained
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The chief objections to Hueters operation are the loss of the anterior medial point of support of the foot stiffening of the proximal joint which was complete or nearly complete in about half of the cases reviewed and a tendence toward high grade arthrute changes in the provinal joint in cases in which a fair degree of motion 1 retained of the proximal point in cases in which a fair degree of motion 1 retained of the provinal point in cases in which a fair degree of motion 1 retained of the provinal point of the foot worse and may be followed by ankylosis or high grade limitation of motion from arthritis proliferations. It is indicated however in very evere case of second ary arthritis deformans of the proximal joint

I udioff s operation was performed thirty times in twenty care. To cases were operated upon art years ago seven five years ago eight four years ago eight three years ago one two years ago and four one year ago. In the cases information with regard to the end results could be obtained only in titing

On re-transmation the angle of adulation of the great toe was more than 20 degrees in eight cases and 20 degree or less in seventeen cases. In fue cases information regarding adulation was not obtained Markel metalarisal depression was present in twelve cases and molerate netalarisal depression in thirteen cases. In fue cases there was no report regarding this condition. Analysios of the protumal joint was not demonstrable in any case. In eight cases the joint was not demonstrable in any case. In eight near the cases the joint was careful that in twelve there was molerate motion and in six motion was normal in four no information was obtained with regard to motion. Walking was normal in nine ca essistifactory in even and unsuit factory in fourteen.

The author suggests an oblique osteolomy from the upper surface of the distal portion to the lower surface of the procumal portion. When this was done she distal fragment guided by the osteolomy plane which runs obliquely downward must slude toward the plantar surface of the foot life believes it would be best to combine this mol fication of Iudioff so operation with lichmans shirting of the abductor operation with lichmans shirting of the abductor

procedure offering the greate t chance of se unity a well as permanency is the use of the atructures which alrea h ponces fr tective e vering and in them whee do not tent to de el p the overgrowth

u e f the trochanter fir nei ht learing nith retrans limpte n of the mucle attachm nte to mo I with factory \ ne of the results to any I tie different method can be exjected to be infliant but the cont ti n to be relevel i u uille ! perate an i the great rel of from min and the varying legree of increase I a tivity lemmitrate the alvant ge of

over the treatment

In of I ununited it ctures of the neck of the lemue the questi a fi st to be an were if whether the head may be well a two rwieth r the rates t recare to be employed in my pace to o' tale a the its and notion. When th eventuen ram gives evidence that the remaining head in a c niti a to perform part of the funct in of the mirt the best res it is ultained to putten it to the use. In such cases it pream that the immediate contact of the be d with the freshly exposed surfa e of the trocharter gives the best chan e of all dur in This preduce also a use tlacing the heal at the carrying angle whi h is the m st useful f rion to ne n fering the Is of the reck and of see sing from appents a by the a liu tor pull The red pug of the two wpor ing surfaces t se ure a c nease an ic nvex urface neces states th rough removal ef allof the le se and tesistant (broug to sues and of the bone unfaces until spenes areas are expered in is th fragment

In cases with ereater I satisfy and pa 7 in which the head of the ferrur is small an hatro; hela d the tartil g line i thin or tra to the at ent and parti ul th in rases with exten ive e tes arthrib hanges about it margins of t this femurand the ac tabulum the best solut a of the diff cult prof. lem tres ate I is the use of the trochanter with tean I lantation of the muscle attachments

S C II LDI NI L MID

(sille W.F. and I eliesu le A.B.; The Repule of Injuries to the Foste for Cruci I I ig n t of the kneed int. Inn S. g. 1917 let. 50

for the regale of injuries of the posters e erucial I gament of the knee joint the authors a bocate a

new operation c nst ting of the I il wing steps I Th ough a me han inc sion extending from the mille of the lack of the thigh to the upper pertion of the calf the ten ion of the s mitendino is is expose t detacted from the mu cle as high as pos il le above an'i strippe I donnwar i towar i ats

2 Its way of the superficial ports n fithe plt patella u ci ton the ins rti n of the emitendinosus is expessed an I the whole tend a frawn through the

front of the leg beneath the art rius 3 The lower portion of the posterior Incis n is deepene I an I the po sterior I gament of the knee an I upp r portion of the tit a are expose I by wilening the pace between il e gastr enemius mi s les With a t it drill a hole is ma le in the head of the tibia

from all ghilly external to the mill ne on the paster of s riace of the head I the tit is towar I the internal air ace of the til in el se to thein ert on of the semi tenti us The cut enl of this ten lon is then ps wifthe ugf the healt of the til a until it appears

in the fittella and its ten ion are shit longs tu intil) to expose the 1 int. The sharp pointed I wiken is pas ed from behind forward through the t set ein I gament of the knee at a point just above the hele in the lea tof the tit is an lin the leof the I the crucial ligament. This is lone with the Ince flere lever the en tof the t ble The bolkin is then pu he ! forwar ! until its point punctures the sin it in mirane at the mot anter r point i atta hment (the eru isl I gament to the internal confide I the femue The bookin and tend a are d awn out the ugh the selt patellas er ion

I smail i cit on is ma le over the v ternal con I le and the full is payed the ugh the femur o that it enters the joint at the point at which the boilin had pun to 1th san I membr ne The ter lon i letach tfr m the talkin ar ign sed to mean of a flexible wire thre ler through the hot in the femoral e ni le When the ten ion is d ann taut the rewise me at de appears through the small pu cture a unl in the s'n vist memb an an't bec mese to el au synamil

6 The knee is extended ful ; the t nion drawn taut and the terms al end (the tend a sutured down to the intern I lateral I ament After cl ure of the w unlapla ter cast a applied from the t es t the br

Mution is begun all a immot leatin (a t Alt min MD m nth

Bestun Sir (T A Ca e of E ci I n of the knee and Elbew J int by Lard Lister Condition Forty Lear After / / M J 19 60

In a case in which I rd later e cief the left Luce ant elbow forty years ago examinate a no reveals complite and I of the kne and about an of shirting of the The xc n was apparently performed through a sem lunar inti i n The 1 g is in a po ition of t my! t e tension and go es perf et upport. In the exc. el lbow i int the is good free movement. In si te f ert i legere of lateral and a terope tir rint blit the joint can be actively e tent 1 nd ft 1 The forearm can be pronated and supmated The latter movements are best perf en ed when the osteophytic outgrowths in th r gi n I the new y int fle I ft and right middle hing t ha e be n h articulat d t the m tac rhophalinge i joint The left arm is ne rly 3 in sh rt r than the right The roentgenogram I the kn h ankylo ; and the wire suture us d. The upper e tr mitles f the bones f the f re rm at pear to articulate with the sat to r surfa e of the humerus about I also e I loner en I the latter therefore pros ting beyond the sint

reduction was used. Vineteen of the patients were girls. There were six double dislocations. In two cases of double. I location the treatment failed Sx cases including four of double of location showed reduction with instabulty. In twelve cases with a single dislocation a good functional result was obtained.

was outsined.

In the difficult cases a period of heavy traction vas nece sary. The unstable hip showed long shallow so kets and considerable deformity of the head and necks of the fenurs. The patient limped and the exas shortening of the leg vith weak gluteal power and limitation of abduction but no pain. Frauma at the time of reduction and too early weight the tearing are probable causes of the deformity.

The cases with good functional results showed leformatic some that similar to those in the unstable hips but had firm upper supporting rims about the acctabula

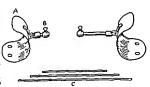
Reduction is evier the earlier the child is brought to t eatment. The more gentle the manipulation the les danger of bony defects. Open operation should be resorted to when the closed method fails

The article is supplemented with eight roent genograms of hips before and after reduction W. I. BLOUNT M.D.

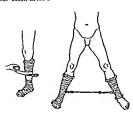
Wilkie D P D The T eatment of Fracture of the Neck of th Femu 5 g Gy & Ob! 9 7

The chief easent als in the Whitman treatment of fra tue of the neck f the femur are abduction of the l mb and cor ection of the eversion. White belt wes that immold attent of the hp point is upne es ary and suggest the substitution of a light cheap pparatu for the double space aest with its attendant is epecially in the cases of aged person.

The appa atus rec mmended consits of two flex ble opper sheets which has a jointed attach ment to e ei ethe end of a rod of untable length. The heets are modeled to fit the lower legs and in cased in plate while the limb are field in the deletion to its clamped into the attach.



Fg App at s consit g of flex ble c ppe sheet A ith i nited trachm at B which is tull I t to re i bras abduct on rod C



Fg 2 Apparat in orporated n plast r band g ab d tin odn erted and e n cor ected

ments on both sheets and lies parallel to the bed. The result is complete abduction with the injured leg inverted but with the hips and pelvis free. A window may be cut in the cast on the sound leg to permit exercise.

To date seven cases have been treated by this method all with satisfactory results

CHESTER C CUI M D

falluces. The would give a methal which while time c nouming w ul i he m re complete than any emple elatere ent In it original form I u lloff s f fats n ha viel te i enly partially sats factory result II there (2)

FRACTURES AND DISLOCATIONS

klacin r Mi Tie Technique of Oper Reduction effractives 5 cc ()) 1 1917 xl v 54

In some ca of fracture open rejuction is almasa inte tet ant mu t be attempte fin ainte of the lancers attending to ne surgery Lailures ! pen r lucten are l'et ina lequ te anit mical re natructi n t long eantinued immot lizate r s cor lars d loc to n of the reduce I fragment kirschner ! cribes in ! tail his technique desi e ! to ir ent uch comil att n to assuring frm

at thion the operation as a wall I lavel to also at eight I safter the injury furing which time the 1 mt is from lize lin a got liportin as portile Imm list operation are lun ni when I bo le ment i n ce ary a in cren fractures Stereoscopie twite overam are m ! to of tale an accurate k I h I th g mits n of the fr gme ts A. I mar h b n lage is used f r the work on the le but becar fibe isoger f ners, injury in the arm i never arri t at ut the h m rus. The men in as me le suf lenti legt al wat quate est succ. The wittle are not stripped in m the period um but the fragments are free I suf pers t ils and with gire t car th per steum and a fe to ues then being retrette fan i per tecte ! Arre its n I the fragments a site i b. bone I ling I truments If ne is a crifce I only wh n its I I neces a

Oil me fractu s are 1 to 1 a the type which on he firm! unite ! !) clerul t wire I'm mage f wire are wel if i fle entl being frann tilt to a good wire! The girceps and the single knettlen [1 nell will ring Occis nall)

I sars t itin of the wire exerts auffer nt ten unt hill the fragm ats lun wire from o ; to men the Li use I This i are i usly heated to a

relbeitt mikeit flatle

leu ver facture are un tel bi l'ors t ne mitr w pers. The e pers are inserted into the mitr cavity a 1 11 a 1 sill. They reed Ilit e as witten a len m nth thes n I fee tem be ome abserbed. The method I recomplishing th in tt n I the peg in I fleult a es are le scole !

(wher mett I such as wir ng th ugh irill h 1 s prigging from a 1 t ne and late al splinting are uel nis ce un il

ye i metal lines

the after tr tment een it in imn bil aiti nin a c mt trate I laht sil t the application of h at m ag soon as the soft | rts h e heale l les by m bilizition The frm apy mitlon reduce the | rt | f imm libration and the chances of muscle atrophy and p int stiffness and fa ors an enther retu n of compl te function CHESTER C CLY VID

I hillipe II B ad C II ad W I: Longitudi al Fracture of the Seck of the Radiu Ant u ual and Illtherto Undescribed Ira ture R port offie Cases I in M 4 1927 l x

This report feals with five cases of short longs tu i cal fractures about 3, in in length exte d e fr m the epiphy seal line to the neck of the radiu. All of the fractures occurre I in ch I iren an I resulted at parently from Ind ect vu lence reces el in falls with the elas w flexe I and the forestm in extreme pronati n There was no involvement of the head of the ralus or of the ralohum at ; nt The It atment con isted in 6 at n in the Jones pesit n I cone week foll weilly m I lizati nanim s age In every in tance recovers was complete in o e month Cirmet cir Mb

k nnedy R II Fractures of the Trans erse Processes of the Lumbar Le tebrae 4 5 6 1917 | 1 510

Among I juries of the back I actures of the tran verse proce ses of the lumb r vertebra are not rare The diagnos cannot be established however until anomale witch are frequent in this region I th be ly are d fin tels r led ut Th mo t common cause of this type of fra ture : 1 rect x 1 nce. The symptom and sen ar three lase recesoranor contu i n of the lack In the Lagnosis the roent gen gram of gr at at 1 The fra tures are u ualla multiple n fa a rule all of them occur n the 1me at te of the body. In some area there may be a e mpl ating fracture I the bods of the vert bra h this s au elf singury to the soft tis ues su h a teating of the muscle nil gaments with estray satt not blood The prolo gelisabits and k sa of functi n are I e to the resulti g fib o it

An lelge I the perence of a fract r is best withh ld from the p. tient a t will gre tly t crea e his reuro ! In som ca e d fin t bons un o the transver e proces es occurs

The auth r tre tme t nists t bed rest the application of hint and massage fr ! ngelimm l'Izati n in a plast cast i in itrati sat i creases the time of delles. The author eports ten cases. If pat nts contlet alk after an average perio lofs ricen l vs Ih m x mum t me of di afility was eight months. The or u et in orly nec se Drabilt over ix m nt) no ual The may tiv f pate its shull be twick with a in months afte it injur

110 77 M D

Willa d De F 1 Tie Res it of th Del Method of Rediction of Cong nital Ilip Di location JR w/ 15 1 97

The author review t enty e of conge ital ds loc t n n hildre let en th ges of 14 months and 8 , a s in hi h the Davis metho ! of

Artemosclerosis syphilis trauma and tubercle formation in the vessel walls are etiological factors Of ten patients operated upon four (40 per cent)

were cured. Of those not operated upon all ded.
The author discusses also are as yet obscure
thesase of the intra plene vascular system is the
changes in the yessel and extensive arterial and
peraterial inorganic deposits in a circumsembed
region which may lead to the formation of a harma
toma in the spleen.

Cawadias A P The Oscill met ic Examination of Arterial Permeability B ii M J 19 7 1 419

Lanadas has found oscillometro examination with Pachon socillometro to be of considerable and in determining arteral permeability. He says that institute more sair factor than either digital examination or tests of the Vloscheo tiz or Matsavepa via gives more definite knowledge. He introluced it first in 1912 and lince then it has been employed by a number of other observers.

Chincalls the examination of arterial permeability, helps in determining whether obliteration or a condition of spasm is present. In addition it allows observation. If the course of the dicase and the effect of treatment. Exact local zation of the oblit eartion may be determined by this method successful may be considered to the control of the oblit eartion may be determined by this method successful control of the oblit eartier of the blood month.

The collater I circulation which exists in an extremit mas be determined by taking the oscil lowete c revidings before an I after compression of the a teri. Obliveation f the radial arresh of an aortic ancurism or a tumor of the mediastinum mass defined intact with the oscillometer. The in volv dures visit will show the occillometric curve of a teil alobert to m. R. W. McC. vir VID.

B in W Phiebitis and Th ombophiebitis of th Lowe Lett emitte and of the Superficial Vein of the Lower Abdomen L 1 9 7

The author classifes philottes with or sithout the miss form iton as (1) recurrent philotist of it miss form iton as (1) recurrent philotist of it miss form it miss for it mi

A pred po og cau es such factors as damage to the lining of the en chlorosi changes in the qual it is the blood inflammation of the venous walls and of um liurateeristal an lanincreased amount of clim in the blood must be considered

The gas associated with the superficial type of phl bit con ist of a small area of cellulitis with born in the keening. Pain is present at the on et but lat rouly on exertion or movement. In thrombo phleb its one or more closs may be felt along the court of the vein

The author reports four cases which are typical of each of the types described

In the treatment rest of the extremity is mport ant. If a deep ven is involved the patient must remain in bed with the foot of the bed elevated. In palpation of the vein care must be taken not to lossen a clot and set it free in the circulation. Hot fomentations must be employed and if there is much point in variation and insistered interval. The first contract of the contract of

Clake B E Fat Embolism J 1 1/ 11s 19 7

Clark reports to fatal cases of emboln in following orthopedic manipulation in throme arthritis. In the first case both knees and ankle were subjected to the treatment and in the second only the sees were maripulated. The death occurred after five and thirteen hours respectively. Sections from a sunusconservas all showed fat. This was mot abundant in the lungs the glomerulu of the kidness the heart and the brain.

The author believe that chronic arthriti especials the hypertrophic or rheumatoid form offer optimize conditions for the development of fat embolism. Before treatment is instituted persons with this condition are often ill for many jear during which time the bone and surroun high tissues underro propersisse changes atrophy of dissues and termaining cancellosis portion are therefore extremely del cate and quite britle. Accompanying the bony changes there is a marked increase in fat. Accordingly closed orthopedic manipulations in such case are extremely hazardous. Jecon M. Mors M.D.

Lehman E P and Moore R M Fat Embolism Including Expe imental Production without Trauma A h S t 192 02

There is no question as to the occurrence of trait matic fat embolism but there is al on question that trauma is not the only cause of fat embolism. The conditions with which fat embolism has been asso ciated may be grouped under four heads (1) meta bolic disturbances 'id abetes car box ascular renal s) ndrome) (2) por omngs (3) toxxmuas from acute infections and (4) toxemia from tissue destruction (burns) Infatal traumatic fat embolism the amount of fat found in the capillaries is sometime dis proportionately large as compare I with the amount of depot fat d sturked by the injury. The obvious source of this large amount of fat is the ultra micro scopic emulsion of fat in the normal blood plasma In a eries of experiments it was found that the sta bility of an emulsion varies with the fineness of the emul ified oil Attificial soap-held emulsions of oil in water are destroyed by (1) fat solvents (2) soan

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

St tzer F 1 Sh uld Variene Veina Be Throm how df f) in 1 k ampl leath mt ren 1 V4 med H & 1 h 120 l i 10

The author treat is the anit in malar limehan is leaf at most (the mass) term that he is restricted at the line at mitters are the uses in particular instance to the heart. For most experiments of portion to the heart. For most experiments of portion that make the heart of the theory of the malar than the the heart. For malar each of the perfect of the than the the heart. In the heart of the heart of the malar than the case yet each to the the thank in the same yets used as the first of the malar than the them thanks of the malar than the them.

In asset it receive bustre ar (carres) it in c 5 rt to extiti thi back was it hinds it fun toon title leg end u soit sucles! so flavors the juming a tin file cyceno st ma i mullegr are which frees the blood

urnari provid literumulature fittelgi ni

in the black to sel wall or very library of the Artificial Transport in Varieos Vin fathe Leg with ut freedown High Liga

tion f the 5 pl nou 1 is Mousibly is a f & not h farmer ou a forecast of the north large is to be a fire a line in the large is the north of the large is the north of the nor

Hirsch at te th t live the ma guratin by blofther; etn are t nent I arcove em of the leg with ut hight in ofth a jah nows yen, the court ree femt I complications has been retreted I hefer the in heatin I rith. I am tologial mith I term taboult be limited.

In a h u wn helre the Carl bell direction in name in 2 the author teps the last leave 1 miles mill in maga en u superior a fat leave 1 miles mill in maga en u superior in a fa sub-requent perstar in 1 and 1 statu and advant 1 th. 1 w th t n t the open tive area one remains which in thing was ments that in the leave to the time reg at b. Mere berg but the thromboes I the legs shall be considered the cause of the legs shall be considered the cause of

the embels man half a theory, that there may be firmed in the entrial tump of a layried saphemus win & atting to guidant through which will find the licition langer us is refuted by the investigation of the same and the same a

high lication of the say become ven. In reply to Hirsch von terported the autop as fa lings for the cases to which Hirsch referred to the troubless of the sphenous ven embolism of the plumonary car til and recal art res art of a star for arms no sale. Volt believe is that no order to terrum whether the thrombo enginated in the appliers of vicin the operative area of the an I appliers of vicin the operative area of the an I

f re a b eterol gical examination of the sens the hamorrhoid life us and the thrombi of the a hencus vein was neces any. He considers prelem any light not the veins not harmless because it is relativaty possibly for the operation to be performed und rabulutely a epile conditions.

Li ticu (g)

Neher II An urim of the Splenic Art ty (the Vurymind Stena 1 1) De I k Zi k f Ck go 1 1 8

The auth r report a case of very ext mise ancutism if the splien rure 113 operation a 1 reviews fittened in all to overvie leaves of ancut m if the flene a tern and it branches which ha e be not 1 read in the literature. In it there was a text of the interest in the special particularly attent the injection of long to the particularly attent the injection in food and how the second attent to the control of the state of the special particularly attention and they will be specially attention to the special particularly to the special particular to the special particular particular to the special particular particular

amenia creare.

In most fethe a me rene in mo urred in the trush of the a me red in the result in the second in th

as a simple procedure available to all practitioners. When it is not adequate in itself it may often serve to reduce the size of the tumor and thereby render it removable surgically through a small incision.

The solutions employed consist of 1 gm each of quinine hydrochloride and antipy rine dissolved in 4 c cm of water. A total of from 0 50 to 200 km of guinine is injected depending on the body weight.

or quemue is injected usepending on the booly Weight. The injections are made directly into the tumor and ab ut the periphery a maximum of a combeng introduced at each point. To prevent sloughing coast lerable space should be left bet ere the points of injection. An interval technology of the points of injection. An interval technology is a subsidier of the inflammatory reaction. The slight pain with it follows the injections is readily relieved by hot wet dressings. Fever often follows the first treatments.

The quinine causes a perivascular sclerosis thich rapidly reduces the volume of the tumor Small hard nodules are produced in the area but these tend to disappear spontaneously If they do not

they may be removed surgically

Seven case of moderately large cavernous hæmangomata of the face were treated by this method with e cellent results. The case histories are supplemented by photographs of the patients before and after operation.

ALBERT F DE GROAT M D

BLOOD TRANSFUSION

Schneider J P and Carey J B The Natu e of tl e Glossitis in Pernicious Anæmia W 11e 1 la M d 1927 2 4

In the glossitis which accompanie p rincious animum the authors have demonstrated the presence of streptococcus vindings. The technique consisted in sternising the surface of the strends of the surface of the surface

In mise cases of permicious anarmia examined the culture was positive for the streptoco cus viridans whereas in the control cases of glossitis associate! with carcinoma of the stomach epileps). Weeller a glossitis ulcerative colitis and arteriosclorosis the culture was sherile or showed the presence of some culture was sherile or showed the presence of some form of the collection of the

The pre ence of glossitis does not seem to depend up on the degree of anamia since in some cases the glossitis preceded all other symptoms and seemed to improve as the anamia increased an lyice versa

The results of this investigation seem to verify the findings of Hunter working with autopsy speci mens of glossitis from cases of pernicious anamia

MILLIAN J PICKETT M D

precip tants (4) acid and alkalies and (4) the products of protein lee mps at n They have I cal emulan of fat in the 11 at acrum seems to be de troyel only by the fat solvents

A series of experiment to the financial extending the series of experiment to the first three series of experiment to the first three series on feet in fether an labor to first set et l. 3 Weller Beller Temperature in the three three series of the series

It m the test tube experiments it seems highly go table that the a to n f products of protein from with n circulating in the ldw fatr m is an

dition Hact r

The partials represented the falses in of a slaugers when proling I amenthe is follows a feavy pread I fat and when intras neity in hea if nic given in case in while it is majorities of fat is high is olvifue. Therefor hip of the presence of it said distinguished in further in to 18 th and a high fat the is suggestion.

In attempting to feetens of the lethal from fix for its variation in finest in the authors are fill wing in the for steps of num run investigators. It was tell a very that fill he first in elimination and interest in matrix fix and letter to call the first fill required for a rate first of a rate for a fill the first fill required fill required fill required for the fill the fill required fi

Holm n F and Edwards M F 1 The Surfery of Large Vessels J 1 m M 1 19 7 1 1 900

If Im a and I is as he decay the principle of dealer to pure I path in the main art 19 to an extra mily. The decrease has been corrected to the principle in directly as a few main art 19 to an extra mily. The decrease has been correlogated to the principle in direct cases has been correlogated experimentally by rectrad investigators.

The authors present experimental existence in support of a further mo lifeation of the operation which requires that un her certain curcumstances the lieston of the send be performed at a consistent/be distance or simal to the site of light in of the attern. It, wammarine their work as is! wo

atters. It is summarize forts such as in which is a summarize forts such as in the bincrease the live as is sided atterp to eccl so not it is muin seen the extent of the inter as even gleen lend on the site of lugation of the vol. I spreimentally feat in of the femoral vein increase I the block pressure in the 1stal end of the divided in reatern om min ligation of the common since vein race! it o mm and ligation of the vena cava rasself it is just the common since vein race! it is min.

2. The volume five of 1100 to an extrem to von 1 a 1.1 fasters is crased by ordin a of the main von. The extent of this increased, fave depends also on the size. If a ten of the ven Experimentally, the rinute volume flow from the did taken if and and if firm all returns one con of b. I occlus in the fem rail returns von occur of b. I occlus in the fem rail returns on occur of b. I occlus in the fem rail returns on the moment with the flow 12 cere occlus in of the room occlus in of the tense was increased if it to 6 cem, and occlus in of the tense was increased aft. I to cell

I langue I the extremity occurred in all 1 feer cent I the animal 1 h h the sen ca a was lasted simultane u ly with Jett in of the c m mon three art 12 as completed 1 its occurrence in 13 per cent I the animals in which the c mm n like carters and 18 he carters and 18 he carters and 18 he carters and 18 he carters and 18 of the the same lev 1 is the same lev 1 in weet life carters and 18 he carters and 18

The authors on full it is the resperiments of a bort to the teachings of Makins and other that in order to becreve the incidence of grogger factors to estimate a find main arters to a per tremity must be accompanied to 1 onto the main value.

It appears to we er that Leat is of the man en should It he not at the 1st of other layers of the art by the positional the constructions to the temporary on the arterial transfer surms in man or litter I circulation. Li ation If the ensat the point prices an incree of periph arise and are in the cry if it is before malls supplied to these arter I branches and In cets the 130 of I then in the position of the properties of the surface of the 1st of the graph of the properties of the surface of the surface of the with the surface of the surface of the surface of the surface with the middle of the surface of the surface of the surface of the with the surface of the surface of the surface of the surface of the surface with the surface of the surface

If multanes a bask not the in and step i performed and stages of impensing a fargree in the etermic pear least in the ein tan a diseable it annece prometal to the lectoid the town of the artery is it tell Fire myle of the town of the artery is it tell Fire myle of the medical places are the performance of the medical places are the medical pl

ligation I the main ent an trust fe improvem at of the real to a in the ml a gutts A 1 C1 1 chitera san! niurteritis obie t ju tit at le on experim neal groun ! Whenever there a partial Phterati n 1th a te 1 tree with an comp nying refu ti n in th with which Hood ma fl w int n viremit er responding thit r ti not the s n bed th n accome aving r ducti a to the et with hich Il I may if we ut of the extrem to 1 in h at 11 resto e the b I nee bet en the ta ulat ry vs tem Thu in certain instanc s m pa ge be J # M M averte t

The method of treating angumata here le bel in timtende i to replica rai mithaly hich gives excellent results in cert in care bits effect

The decision was then made to give pre-operative prophylactic treatment of the same character. Half an hour before the induction of anisathesia 100 cm of orange junce was given by mouth and 50 units of insulin administered hy podermically. This treatment was supplemented by the administration of 100 ccm of glucose three hours after operation.

In two chest cases in which a previous operation had been followed by severe vomting there was no vomiting and only slight postoperative nauses following a second operation when the described prophylactic treatment was given. When one of the patients underwent a third operation which the though some considerable of the prophylactic treatment she vomited for three days. This vomiting was then controlled by 100 c cm of

o per cent glucose and to units of insulin

The method described has reheved also the vomit
ing of peritonitis the vomiting of pregnancy and
the accione vomiting of children

MARCUS II HOBIST M D

ANÆSTHESIA

Ock rblad \ F and D llon T G Ephed ine in Sp nal Anæsthes a J im il 1 9 7 lxxx u 1135

Spinal anasthesia is most sati factory for u ological cases but is often accompanied or followed by a

marked depression which cannot be accounted for by the operation. The effect I due to a marked fall in the blood pressure. To combat it the authors have used ephedine. Chea and Schmidt have shown that the action of this drug, I similar to that of epine phrine and is due to stimulation of the sympathetic nervous system.

Ockerblad and Dillon have u ed it in twenty four cases with uniformly good results The blood pres sure was first determined and a spinal puncture with the removal of 10 c cm of spinal fluid then done Five cubic centimeters of the spinal fluid was dis carded and the remaining 5 c cm with from 125 to 200 mgm of sterile procaine by drochloride crystals then replaced in the subdural space. When the blood pressure had fallen to per cent the enhedrine vas given subcutaneously and the blood pressure again determined at ten minute intervals. The pressure must not be allowed to fall too low before the injection as the rise from levels below a systolic pressure of 80 is retarded. The authors used o i gm of the drug subcutaneously before the pressure dropped below 100 mgm Hg Besides the increase in the blood pressure they noted an increase in the nul e rate after the injection In the first few cases the drug was given by mouth In these also it caused a marked increase in the blood pres ure but its action was delayed CRESTER L CREAN M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Da idson E C The Treatment of Acid and Alkali Bu ns inn 5 g 1927 1 v 48

The lesions produced in tissues by the action of alkalies and acids resemble those produced by heat The latter however are self limited in depth because tissues conduct heat poorly and the hot agent causing the burn is soon chilled In the acid or alkalı burn the destruction may be progres ive The usual treatment of the lesion is the prompt re moval of the irritating agent followed by neutraliza tion with acetic acid in alkali burns and with sodium bicarbonate in acid buens 5mith and Holland however have advocated the use of water as a first aid treatment with neutralization as a secondary measure The author has attempted to determine the relative efficacy of neutralization and simple dilution in experimentally produced acid and alkali barns

Rats were anasthetized with ether and a hind key max immersed in the test solution for a given period. Three groups of animals were used in each experiment. In the first group the excess of said or alkali was carefully wiped away with cotton. In the second sooding hose thought the experiment of the

various acids and alkalies were tried

In every instance the rats which were washed thoroughly survived longer than those which were treated by neutralization and at any given period after exposure to the caustic their lesions revealed less evidence of irritation than lesions treated by neutralization. It is thought that the heat of neutral ization may be a fact it in increasing the trauma

The latent periods of sensory stimulation of various caustics upon human skin were also deter

mried

The author concludes that when treatment by neutralization is employed it should be used only after the maximal amount of the caustic has been removed by thorough washing

LEO M ZIMMERMAN M D

Gordon B and Canta ow A The Use of Para thy old Extract in Harmorrh ge J Am M Ass 1927 laxvvii 13 1

This study was undertaken to obtain further data on the prevent on and treatment of hamor rhage ar sing f om various sources. The fo me dosage of parathyroid extract (from 10 to 15 units every th rty to thirty six hours) was used except in a few instances in which from 15 to 20 units were

administrate every twenty to twenty four hours. The plan of treatment is a to continue the injection of the plan of the plan of the continue the injection of the plan of the

In all the parathyroid extract was administered to 347 patients with hamo rhage from various causes Cessation of the hamorrhage occurred n 304 cases following one or mo e transient i icrea es in the calcium content of the circulating blood The most lavorable results followed the adminis tration of from 10 to 15 units every thirty six hours for from one to three doses. As a pre operative measure in cases of jaundice the administrat on f the extract reduced the coagulation time to within normal limits and apparently prevented hamorrhage Uniavorable results were produced by overdosa e and prolonged administration. They occurred also in cases of blood dyscra ias (nuerperal hamortha e and hamorrhage disease of the newborn) irrespects e of the size and number of d ses appa ently because of certa n local ch nges in the tissues

of certain notation negation in this uses.

As comp red with common experiences with the oral and intravenous admin strat in of calc in the results are more depend ble. Gastric instation and other untoward effects are avoided. The hormone was found to be of special value 1 the cases of patients recovering from surgical operato 5 who were unable to tolerate oral therapy.

In conclusion the authors state that the use of pathy role extract is I value in the co trol of hemorrhage because it effectively mobilizes cale um salt which is normally stored in the body and snecessary for the clotting of blood

Date C R betable M D

Dolan II S Po toperatic Vomiting T ted by Glucose and Insulin C nods M A J 9 7 xv 431

At postoperati e vomiting was noted to be relatively ere in the case of daubetic patients given the relatively ere in the case of daubetic patients given the detection of the case of the patients which is the patient was made to control postoperative vomiting in other cases by the admin stration of gluces and lasting. Accordingly three old women with severe vomiting for the edgs following opera to ower great pool come of 10 to 30 per cent glucose intravenously and from 10 to 15 units of insulin the postoperative for the case of the case of

tion and fever The regional gland svell up within forty-eight hours after the onset and about twenty four hours later the primary site of infec tion becomes tender with the formation of an inflamed pipule which breaks down leaving a necrotic core which is later extruded and leaves an ulcer In a certain number of cases the skin over the lymph glands breaks do n but in about to per cent the glands remain hard and tender for from two to three neeks Subcutaneous nodules are fre quently f und along the course of the lymphatics The acute stage which lasts from two to three weeks is associated with eakness loss of weight chill and prostration. The fe er is rather typical show ing first a ri e lasting for two or three days then a remiss on lasting for two or three days and then a

secondary rise which goes up to the original height and gradually declines to normal in two or three seeks There is a moderate leucocytosis The general symptoms and course in the four types are the same. In the oculogiandular type the pre auricular parotid submaxillary anterior cer vic I and ra ely the axillary glands are enlarged Of tvents ty o oculoglandular cases the involve

me t as bilateral in three cases and in all of these

three it was fatal The mortality is low In 323 cases there were only seven deaths. Convalescence however a slow the patient usually being unable to return to work for three month and some of them not for six

mo the or a year

The diagnosis is based on a history of dressing or dissecting ild r bbits or of a tick or fly bite a prim ry lesion either a papule follo ed by an ulcer or a conjunctivity enlargement of the glands regi nal to the primary lesion and a fever of two to three weeks duratio In the laboratory the d agnosis will be confirmed by agglutination of th b cterium tularense ith serum from the pa tient during the second week and increase in the titer du ing the third week and by isolat on of the o gamsm f om inoculated guinea pigs. The serum

ill aggl tinate bicilius abortu and bacillu meli tenss it usually does not do so in as high a titer as it applutinates bacterium tularense

One attack on fers immunity as the agglutining persi t in the blood for years

The treatment purely symptomatic Bed rest is most importa t Incision of the glands is not advis ble to accine or serum has as yet been de eloned MI CHARL L MASO MID

HOSPITALS MEDICAL EDUCATION AND HISTORY

William J W I n Architecturally Isolated Building E sential for Lying in Hospital? If d II p 9 x 58

The author does not agree with DeLee that the matern to hould be hou ed in a eparate building He cites his experience at Johns Hopkins Hospital

Baltimore where the maternity ervice at first occupied the same floor as the isolation i ar l

Williams does not consider puerneral infection to be air borne but insists upon a rigid asentic tech nique especially the avoi lance of routine vaginal examination A proper personnel on the service is of more importance than the architectural arrange ment of the builling

The author has had training in the pathological laborators and is still a regular attendant at nost mortem examinations thich are made in most of

the cases of death on the service

The proper planning of maternity hospital should interest the obstetrician as vell as the architect Large well ventilated rooms porches solaria etc. are important. The building should be as sou I proof as possible as quiet is important to the wel fare of the patient In conclusion Williams says that if De I ee s

plan ere rigidly followed as the only safe yay in which to conduct a maternity the cost would be so prohibitive that the service could be carried on only in large vealthy institutions

WILLIAM I PICKETT M D

J 19 7 656 Thomson S r StC Lister A House Surgeon s Memories B | II J 19 7 6 9

SHERRINGTON Li ter s earliest paper in 1853 dealt with the contractile tissue of the iris. In his second paper published a few months later he de cussed the arrectores pilorum. His third paper i as al o physiological dealing with smooth muscle About this time he wrote his father that he had become greatly interested in surgery and had begun investigating the fundamental process and reaction of inflammation These investigations led to his article on the pigment cells of the frog s skin and the nervous control of artenes

BULLOCH Lister's theory as to the cause of blood coagulation-that it is due to the influence exerted on the blood by contact even momentarily of ordinary matter of some Lind-is about as good an

explanation as we have today

Lister became one of the foremost bacteriological technicians of his time. He grew the bacterium lactis in pure culture in sterile milk. His work on lactic fermentation is a classic

He regarded irritants as acting in a twofold manner the primary effect a dilatation of the vessel brought about by the influence of the nervous six tem and not limited to the locus of the irritant and the secondary effect the direct outcome of the irritation itself in consequence of which the blood becomes altered physically and the red disks be come more adhesive accumulate in masses and may bring about a condition of stasis

MISCELLANEOUS

GENERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Meleney F I Harm lytic Streptococcus in Sur gical Ope ating I ersonnel J 1 Jl 11 10 7 1 x 1 1392

In a pre rous stuly of severe hamolytic strepto coccu infections of ope ative woun! Mel ney and Stevens vere alle to d monstrate l'v agglatination tests that a culture taken from one of the infecte ! woun is was a lenti al a oth a culture taken from the no e of the instrument nurse who as I tel at the operation This suggeste I to Mel nes the tudy of the incidence of hamply tic streptococci in the nes an I throats of the operating room per onnel Duri g a twel e month perso I he f und the incidence to be greater in late winter and pring with a peak in April and May The mer len e vas higher in the surgeons than in the operating room nurses It one time or another pos'ts e cultures s'ere foun I in nuncteen of fifty three surgeons but in only eight of seventy two nurses

When a lequate masking of all persons entering the operating room was practice! the incidence of operatic wound infections validecreal. While the ellittle doult that there are ofter causes of woun leontamenton the author with the omphasize the ellection of compliance of the operation of non-important source of voin linder on

MANUEL E. LICHT THE

F ncis E Tul reem! 1110 11 31 3 1927 xx 337

Tularemm is a substate to chronic infections of eace caused by the betternum cultranse which occurs naturally as a latab better may an textum will ro lents and is transmitted to man by from the titles r by contaminate m by the look flat by or tissues I infected animals or master is the been resported in that four will by databuted states of the United States from the D in t. if Columbia and from Japan The organs in sax organ by incovered in the Cal forms ground survey rel by vectory in 1917. Francis named the man dresses tularemain of 21.

The constant source of the infect n appears to be it a vood tich, hich harbors the org most throughout its life and transmit at to its young the body fluid and it sues of lis insect are louded with the bacters. The horsest in the louded with the bacters. The horsest in the louded in finished and it is not a finished and it is a finished by the louder part and the blood of infected rabbits or other to either to either the louded to infected rabbits or other to either louder in the louded in the finished the belief of the transmitted by her fin and this belief did be transmitted by her fin and this

The r is a certain easonal inci lence of the disease in man due to the seasonal activities of the thes and ticks and it the open sea. It the shoot; got rabbits and termined by gime regulations. Farm era and their fumilies market men hou ensues cooks at I hunters are mo to commonly affected because the varieties of the content of the con

The infacting microorgan sm is small pooning the and gram negative II got soully support to the conditions and not at all on the common labor tory med a It is eastly killed 1), best and chemical sign into In tabbits guincapus; and white mice dung from the desire the bacter min is specified that 0.000 0.000 or cem of the freatt blood III kill a 1878 a named The Tecthone (the dof the

teck and bed bugs; nech in mice organisms. Pathol gicalls the le on 1 chart cent at ly subneutreness approaching chies sid in the primary of the sid of the properties of th

Lour of moal type are described

t The ulceroglen fulsat type in which the printry leon is an ulcer usually of a figer with enlargement of the epi rochle t and fullary glands. In the majority of these cases the fall of on results in the disk sign of handle or skinning of rab bit. In a smaller percentage it is caused by fly rich butts.

2 The ocal glandular type in wh h the prim ry les n is a conjunctivitis n th l ter an ulcerous conjunctivity and enling ment of the regional gling is in 75 per cent of these croses the infection the derived it may take the infection to the conjunction to the c

3. The gladder type which h w enlargem at of the epitrochlear and audiary gl d with ut a p irra y lesson I all cases of this type the nice tinn comes from the handling of rabbt is the dresing of rabbits f r sale or so cooking. The

organsin p esumably penetrate the unbroken skin 4. The typhoidal type inch sho is no p imary lesion and no glandular e l rement. This type has usually occurred in hiboratory worker who ha e done necropiese on infect of laboratory animals.

liter an incub tion period varying from one to mine days and a eraging three days the patient becomes suddenly ill with headache vom ting chilliness chills chi g pains a eating prostra Li tera ward were free from what was ever where accepted as the recognized hospital smell His dres ngs when taken off were free from pu and festor Thomson well remembers the suprised and approving smil with \(\cdot\) hich the \(\text{vistor}\) trajectory of the first properties of the first pr

It ters hand as large and neither graceful nor delicate looking Lister was a steady firm and deliberate operator. He never wore a white gown nor a mask nor gloves. He frequently did not remove his coat but simply rolled his sleeves back and turned his coat collar up so that his white starched collar would not be made sodden by the cloud of carbohe spray, in which he operated Sometimes he removed his liback frock coat while operating and had an ordinary towel pinned across his chest.

Lister created anew the ancient art of healing. He hd more for surgers and mankind than had been done by all the surgeons of all the ages since the days of Hippocrates.

Thomson says he never saw Lister do an abdom inal section CARL R STEINE M D

No one could come into contact with Lister with out being impres ef its lis noble personality his magnanimity his fiberality and his modesty

Mossinay Histor's hico cry was very gradu ! His earliest intere t in surgical inquiry were con cerned with inflammat on it can e its nature and the pessille methods fo ntrilling it. In this as In many of his earlier investigations. Hunt r was be the les insniration and his gui le His paper On the f'ow of the lacteal flui I in the me enters of the mou e pullisted in 1857 tasel on research begun in 1951 was an extension of Hunters ex periments on alweption. His studes on coaguthe Iln I in the seins of heep's to tters taine I from the slaug! terhouse By means of his experiments he was at le to carry our kn wle ige of e agulation of the 11 of far been it the point to which it had been frought to Hunter and H son a century before set the meth is be emil sel nere cl arly modificati neof the eusette Hunter

List as fast premi e was that becomes to n in wounds depend upon the activity of hving micro organs ms hi second that such org nim cult be lestrose I in the a run tor as they were at ut to enter the wound and his this I that the organi me

within the felt of operat in cull le destroyed before they entere I the w un f

I ister save I more hers than all the wars of all the ag a have thrown away changed the face f surgery an I create I if not a new art at lea t new an i safe an i illimital! oppertunitie for the prac tice of the cll art

Ti first conception in It ter a min i in respect to treatment wa that the organ m within the wound and those entering it might be desir sed by some chemical agent the nature of which was to be tetermine I by a enes of experiments. It is beyon t d spute that Li ter clearly real r 1 the 1 stinct on between the prophylactic and the ther peutic

u es of chemical agents in surgery

The con eq ences of lister's nork are numerous and far reaching. The immediate result was of course the complete abolts n of many of the dancers of inf cli n n a noun lexten fing to other parts and cau ing a ere an i protra ted suffering even grave risk to life itself When the few opera tions then performe I became safe it was obvious that other operations might be attempted result was that procedure f rmerly regarded as very dangerous wer perf rme i more frequently as soon as it could be claimed that their risk w s definitely less than the ri k of inaction

It is Later's work that he permitted us so to plan our operations that not the les n al ne but also all the parts such as lymphati glands into which it makes ha te to extend can be remove i in one mass and that infection is now the least f

our anxieties

We may almo t claim that the full effect of Luster s work is now accomplished We know that for all time operations of every kird may be tracticed without the grave risks that formerly problemed them. The art of surgery is far in a f vance of all the sciences upon which its future

progress depen !

On the foll of bonor which bears the names of the savicurs of mankind no name is more worth of ren emi rance than that of Lister I ster s I ving an I en lu ing memorial L a great and ever greater multitu le of men women ch l fren of every nati race and creed who through his mercy and by the skill of he han I have been releved from a fir mily and uffering and sorrow and male f ra 1 me trsumphant over death it elf

THINK Lister a hieved m re f r mankin i than all the surgeons from the beginning of history He was of pure Engl h stock his people coming from Lorkshire From his father a prosperou wine merchant in Lordon he inhented a ta te for scientife pur uit His lather wa d epi) i tereste ? in the scence of optics he relped perfect the

micre cope an I was a I II w of the R val Society In 1855 when Li ter was a vears of age he went t I haburgh to study un'er S me It ha teen sail of Sone that he never na ted a word a dron of ink or a in p of blut I Liter became 5 mes assi tant an lafew veats later h son in law From I inburgh Is ter was called in 1861 at the are of 31 years t fill the Chair of Surgery in the Lint er ity of Gla gow There b remained unt 1:800 and it was chiefly luring these years that he la d the foun late in of antiseptic surgery. In 1869 at the age I a years he returned to E bylagh a Intersor of Surgery in the Lowers ty and there pa se I the eight years of his I ie which he after wa I refere I to as the happ est as they certai ! were the fullest. In 18 7 he went to bold the same chair at 1 ir s College Lon fon He ha 1st pulated that he should be all ed to hing with him from I bely rely four a Liants already tray ed up his methods and att ched solel t h er e Of the f ur who accompan e i I isterfe m Lababurghto Lon d n one De James Althamol Pennth 1 lead Of the urviva githree one | Dr W H Dobie ho has long hell a high po tion in Cheste Inothe 1 Dr J hn Stewart of Halifax in Nova Scotia ne of the most affectionate pupils of the maste whom he has frank in many letters and pen pi tures The Courth is Sr Willi m Watson Che ne ho as Li ter a 1 st house surgeon in I dinburgh and 1 s trst : London and suc ce led hi ma ter as professor in Ling's College II pital

The peace loving Quaker spirit of 1 ster vas creatly d tressed by the opps ition he met with a tle hospital from the n ring sister of bt John Lister upset the pious siste s by c pi us abl tion and by purification of man) pairs of hand bef e t uching a patient an I many of his patients were carried or wheel d into the theater as a bjects for clinical lectures

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ottals in Englan I reeked with the smell of putre faction just as they had d ne for centu ie but

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BIBLIOGRAPHY of CURRENT LITERATURE

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INTERNATIONAL ABSTRACT OF SURGERY

OCTOBER 1927

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Cushing If Experiences with Orbita Ethanoidal Osteomata Ila ing Intracranial Complications with a Report of Four Gases S & G C 0.7 72

Cushing eports four cases of orb to ethmoidal osteoma with intracranial complications. In the first case that of a man 23 years of age the osteoma was clinically mistaken for a meningioma of the olfactory groove Transfrontal osteoplasti explora tion disclosed an intradural projection of the oste oma The tumor was removed through the roof of the orbit with unavo dable opening of the ethmoid cells. The ope at on was followed by cerebrospinal rhino rhica and death from infe tion and meningitis The second case , as that of a man 22 years of

age wh gave a history of convulsions and ecurrent o b tal infection A lateral craniotomy had been hone previously fr dran e of an infected (?) aerocele Attempted exposure of the tumor by the a th r was blocked by an niected frontal sinus Further surgical intervention was delayed tent scula pneumatocele with na al shinorshora then develope I and death re ulte I from meningitis f ur years after the onset of the symptoms

In the third ase that of a man 41 years of age a huge ntracrantal pneumatocele of unexplained o m was e pose I and emptied at operation. The pn umatocele then ecu red A seco d operat on revealed an ethmo dal o teoma and alongside it a m nute can'l connecting the ethmoid cells with the adherent leptomeninges whereby the pneumatorele could be inflated. The tumor was remo ed and the can I closed by the implantati n of fascia. The p tient recovered

The furth c e was that of a man at years of 1 transf ontal osteoplastic craniotomy re seal d an orb to ethmordal osteoma with an intra lural proje t on an I an intrace ebral mucocele The turn wa removed through the roof of the o bit with opening I ethmoidal cells. Cloure was effected with a fascial stamp. Uncomplicated recovery resulted

The author states that the first two of these patients died because of a lack of knowledge con cerning the relation of the osteoms to the interc anial symptoms. One died from infection due to failure to close off the communication between the meninges and the nasal cavity at the conclusion of the operation and the other as the result of surgical Orocyastination

In Cushing sommion it is best to remove ethmoidal osteomata as soon as they are revealed by the \ ray

The lesion under con ideration arises apparently from the ethmoid cells Therefore it would sun nosedly he in the province of and be detected pri marily by the e who specialize in diseases of the nose and the oat As a matter of fact the secondary symptoms usually send the patient first to the ophthalmologist and in the past the ophthalmolo gist has courageously and often successfully attacked the lesion from in front with the removal of at least 115 intra-orbital portion

It is evident however that certain of these eth moidal osteomata perhaps the majority of them ultimately lead to intracramal complications of one sort or another Consequently they may fall into the hand of those whose special training makes them more familiar with the cranial chamber than with the orbit or the recesses of the nasal air pa. ages So do our surgical specialties overlap. Since no surgeon can possibly foretell into what difficulties or into what adjacent and unfamiliar regions his chosen speciality may lead him the patient will be saleguarded only when all who engage in surgical specialization have a thorou h preliminary ground ing in the praciples of general surgers

CARL R STEINE M D

Dickinson A M inson A M Injuries to Stenson's Duct Stenson's duct or the ductus parotideus is from to 6 cm long At its origin in the parotid gland

EDITOR'S COMMENT

TVIE critical study of the late re ults of me lical or urgerth methods of treatment contuities one of the most helpful forms of
chinical investigation. Several such contributions
are abstracted in this month is suce of the INTER
VITON I. TRACT OF SURGERS notable those
of Villivet and Bailby on the late outcome of
cranice-rebral injuries (p-3x1) of Branch and
catheart on the prognosis in chronic pivelone
phritt (p-3x5) and of Lengemann on the results
of gristro-enterotomy (p-3x6).

Villaret and Bailby have been able to tudy the results of crinicocrebial injury in go at tents injured from ten to twelse years previou from tent of twelse years previou from tent of twelse years previou from the development of subjective symptoms or of epileps in every case of uneracurited sub-dural hamatoms the tendency of the hamato to tolerate foreign bodies with futtle reaction except in which the foreign bodies were located or through which they had pase of the frequent development of epileps after periods varying firm one to muc year and the harmful rather than helpful effect of crainof lastic operations are a few of the points emphasized as a result of their investigations.

tion

The difficulties inherent in the succes ful treat ment of long-stan ling infection of the ki lnex are discussed by Braasch and Catheart in a clinical review of 2 040 patients suffering from chronic py elonenhriti After a careful stuly of 251 patients of the group who had been under treat ment for from ten to fifteen years the author reach the rather discouraging conclusion that probably one third of such patients will recover one third will be markedly benefited and the remaining thir I will not be helped to treatment Of first importance in treatment the authors con uler the removal of foci of infection-about the teeth or in the tonal prostate cervix and in testinal tract. Pelvic lavage ililatation of contracted ureter urmary anti-eptics-given both orally and intravenou ly-and vaccines have all been employed in various combinations in differ ent cases. The only conclusion the authors fram a to the relative ments of various methods of treatment i that better results have been a tained with patients in whom foci of infects as have been removed than with it me in whom this has not been d'ne

inother addition to the reports of unfavorable results of ga tro-enterostomy is that of Lengemann who performed a secondary Japarotomy on nire teen patients who had previously unlerent gastro-enterostoms. In five cases there was a recurrence of the on mal ulcer and in nire a econdary peptic ulcer. In a discu i n of this report Schwarz stated that of 2001 itients treated by gastro-enterostomy at the Kostock Clinic a 1 discharged as cured thirteen thed later of carcinoma of the stomach and seventeen developed peptic ulcer The reader will I robably conclude that these statistics do not con titute vali fargu ments against the operation of gastro-enterostomy but rather empha ize the importance of chaosing for the operation cases in which et tro-enterotomy a definitely in licated of recognizing the ever present possibility of multi-le-less ns and of gastric carcinoma and I performing the operation when it a in licated with the least f x it le trauma. One would be intere tel 1) know h a many secondary per tic ulcers are due to the use of a non ab that I suture in the gratro-inte final mucosa and the trauma of clamps I it on the stomach and intestine during the exeration I number of other at tracts in this m nth

A number of other at tracts in this in into a such eserce careful readine. Various remails on the use of soline in the treatment of gitter (p. 330). Cut hings seport of four cases I elit ethimodal osteoma (p. 321) and Cu hing and Davi fold since stigarts in the resultentials in it is patients with acromegals (p. 323) are hely ful contributions on the surgers of the thirt and on neurological urgary. Moundains paper in diverticula of the alimentary canal (j. 544) Springs and Marrier's liscus in 1 the bong time the recontigenological linguistics and the treatment of fuserticulosis. If the large to well j. 4341 of Lockhart Mumbers is seeks. If the train is

I treatment of obstructive lear no file or n

Martin says Do not be caught in the snare of a negative Wassermann A positive Wassermann nearton confirms a positive d agnosis but in the case of a patient go jears of age of older a negative blood Wassermann reatton means hardly anything except perhaps that the patient is not suffering from general paralysis of the insane Its significance is far outweighed by absence of the ankle jerks and is easily outweighed by a certain tipe of pigmented sear on a limb?

LAWSON states that the cure of primary optic atrophy is impossible all that can be hoped for i the arrest of the condition. The only treatment which seems to be of value is large doses of iodides

Browning believes that patients progress better under intensive anti syphilis treatment than with out it. In tabes the treatment resolves itself into a just ious blend of the old and the new and in each instance the requirements of the particular case.

must be considered

FEILING states that from the point of view of the neurologist ocular syphilis may be dinded into flections of the optic nerve and the various forms of ophthalmoolegia. Broadly it can be said that the men ngoviscular types tend to occur at an earler period after the infection and to be more amenable to treatment than the parenchymatous forms.

HARRISON 53)s that the incidence of crannal nerve pol less is in cased by the own son of mercurs or bismuth from the treatment of early cases. The use of arsenobernol in the treatment of spyhalis marked a great advance but either mercurs or muth should be combined with it in early cases to make the contract with it in early cases of the contract of period of the contract of period to the insportance of period the treatment of the treatment.

Invest reports that for the last two years he has been trained the intra-enous injection of sodium tod de n the treatment of this decase. In spite of last that the does were large he has never noted any igns of jodism. He calls attention to the fact that if it were necessary to inject salvarsan in fact that if it were necessary to inject salvarsan in the training to the salvarsan that the salvarsan in the salvarsan the patient Liv grings him few injections of sodium tod; le befor e the salvarsan inject ons

Holmes believes that arsenical preparations are relatively ineffective and that in optic atrophy treatment with mercury is necessary

Res reports that he has tred everal forms of arse kall preparations and found that the best results are obtained with novarsenobillon in the cass sof adules and with intramuscular injections of sulfarsenol in the cases of young children

LESLIE L. VICCOL VI D

St kes J II The Principles of S philotherapy as Appl ed to the Ev 1 k Opkik 9 7 I 2 9 Stokes a vphilol grt amsagainst the treatment of syphils except as a general disease with local

manifestations. The patient rather than the organ must be treated consequently a general examination should always be made before the treatment is begun to determine the stage and type of the disease the amount and method of previous treat ment and the indications and contra indication

for any particular therapy

In Stokes opinion arsphenamine is the best spirillicide mercury is the best resistance stimulator and the iodides are the best agents for the absorp tion of granulomata Arsphenamine given in too small doses or doses too far apart is apt to cause sensitization of the tissues and predispose to a Hernheimer phenomenon Mercury by inunction by mouth or in insoluble form in oil acts very slowly and consequently does not rapidly increase the tissue resistance The iodides in small doses do not penetrate well into relatively inaccessible regions such as the nervous system Stokes suggests from six to twelve injections of o z gm of arsphena mine per 25 lbs of body weight after an initial dose of half this amount injections being given at least once a week and coincident with this treat ment the administration of succinimide of mercury intramiscularly and from 15 to 50 or 100 gr of potassium iodide three times a day

He believes bismuth to be a spirochaetostatic rather than a spirochaetoral drug—that it holds the infection in check instead of curing it. Trypar sande has no virtues in ophthalmic syphilis. In nerve lesions of the eje the treatment should be that of neurosyphilis and will require an intensity with which few ophthalmologists of my acquain rance would have either time inclination or enum

ment to deal

The response is proportional to the preponder ance of active inflammatory processes over scar therefore acute inflammatory lessons respond much better than attrophic lessons. Little is to be expected from the treatment of optic atrophy. In intersitual serabits intensive treatment should markedly reduce the incidence of relapse and the permanent damage. Thous D ALEXY MD D

Smith J R Barraquer's Operation B # J
Ophth 927 x1 152

Barraquer's operation known as phaton-cross consists in drawing the crystaline lend by its aute one surface separating it mechanically without traction upon or violence to the sopula and traction upon or violence to the sopula and traction upon or violence to the sopula and tractine upon of the cycledl without tractions are clopas or injuring the intra-ocular structures. Barraquer's instrument the cent structures Barraquer's instrument the cent structures. Barraquer's instrument the constitution of the vibrations of this soundations which is worked by an intermittend or vibrationy pump. It is upon the vibrations of this instrument that the majority of the claims for the nethod are based. These vibrations or interruptions are produced by varying the intensity of the vacuum to he work angest extense as one of the pump. The intensity of the vacuum to be used ranges between 50 and 70 cent. Hg and in a

its lumen is about the size of a crow quill but at the point where it opens into the mouth its caliber is considerably reduced The duct wall is quite dense and moderately thick The duct arises from numer ous branches in the anterior part of the parotid gland Its course is across and superficial to the masseter muscle At the antenor border of the latter it turns inward sharply and passes into the substance of the buccinator muscle It then pierces the buccinator runs obliquely forward between the muscle and the oral mucous membrane and opens upon the inner surface of the cheek opposite the second upper molar tooth In crossing the mas seter muscle it commonly receives the duct of the socia parotidis which is frequently a separate glandular structure

As a result of section of Stenson's duct a very distressing condition is created in which the saliva drains out on the cheek Primary repair of the duct should always be attempted as in some instances it is followed by very gratifying results. Secondary repair is much more difficult and its results are not always so satisfactory If su cessful repair is not accomplished a salivary fistula is formed Salivary fistulæ commonly persist until death unless infection of the gland occurs Infection of the gland may be so severe as to require incision and drainage of the gland In some cases resolution may ensue and be followed by atrophy of the gland a for

tunate termination of the condition Probably the most satisfactory and easiest method of dealing with fistulæ of this portion of the duct consists in converting the extern I fistula into an internal one. The end of the upper se ment of the duct is pushed through the mucosa of the mouth the parotid secretions being thereby drained into the or I cavity instead of onto the cheek Difficulty is often encountered in locating the distal end of the severed duct but if a finform or small probe is passed up the duct from the oral cavity its locat on becomes manifest. The proximal end of the duct can often be located by a atching for the site of appearance of the sahva Careful s ture of the severed end I the duct should be undertaken if it is at all possible Surpris ngiv satisfactory results occasionally follow such at MORRIS H L IN M D tempts

Traqual II VI V ual Fild Changes in Preg nancy B 1 J Ophth 9 7 m 7

The hypothesis that b tempor I hemi nopia in pregnancy is due to the pressure of the physic logically enlarged pituitary gland is rejected by the author because he has been unable to find in pregnan women those field changes which might be expected to correspond to the signs of early pituitary tumor ie a normal peripheri quadrantal change easily d monstrable by colored or small white objects in the region of 10 to 40 degrees from the fixation po at The theory app ars

to be refuted also by the fact that in typical bi temporal hemianopia due to pituitary tumor a scotoma is always present in the central part of the upper outer quadrant unless the growth has been very slow whereas in the cases of pregnancy studied no such scotoma was found

However Traquair believes there is ample positive evidence for the psychical origin of the field changes in pregnancy GEO OF R Mc lutier M.D.

Fisher J H Martin P Lawson Sir A B own! 2 S H and Others Discussion on the Value Recent Methods of Treatment in the Late Stag s of Ocular Syphilis P or R y Soc II d Lond 19 7 x 951

FISHER'S impressions regarding the value of recent methods of treating the late stages of ocular syphilis may be summed up as follows

In modern methods of treatment we have the mean of controlling the primary and secondary manifestations of syphils more rapidly than was formerly possible

2 The never methods of treatment are espe cially efficient in syphiltic d ease affecting the vascular tissues of the eyeball. For gummatous manifestat ons we have always had a lequate agents in the older drugs provided they wer used intelli gently and in sufficient doses

3 There is rea on to hope that as the result of the application of modern methods of treatme t arteriosclerotic change in a be less d sastrous to the central persous system and the rets a

4 In due time the neurologists may be able to show us that syphilitic disease of the nat re of tabes and general pa e is has been less de stating sin e the discovery and more general application of Ehrheh s method

5 Some of the g a must still be attributed t the bette facilities which exist for the treatment f syphilis in its earlier stages and the better cont 1 ! persons who have become infected

6 As a result of the impro ement of facil ties the incidence of inhe ited syphilis will be ery con

siderably diminished

MARTIN states that for symptoms due to pa n chymatou disease of the bran tem chemical treatment is of little value but in the early at ges malarial treatment may give good results. A fa a able effect of treatment upon the papillordema of cerebral syphilis and tabet external ocula pal ies depends to a considerable extent upon il e imme li ate and thorough application i the treatment liter the f st few weeks reco ers f om wular pal v is governed I gely by factor which a e n t sent ally syphilitic and more efficient ni syphilis remedies will not greatly improve the results. In optic atrophy chemical treatment is of little avail when the condition sa ute but if given promptly and thoroughly may retar I the progress of other cases. With the use of more efficie t anti syphilis remedies the results are I kels to be greatly impr ved

According to Barraquer the intact iris constitutes an obstacle to upright delivery as the instrument must pull the lens through the pupil Hence his statement that in cases of hard cataract total extraction succeeds only with indectomy this it seems that any lens can be dislocated safely by pushing it back into the vitreous chamber where vers on can be done When the suction cup is behind the lens it can be disengaged from the vitreous and brought through an intact pupil by pushing instead of pulling and when it is in the anterior chamber it can be brought around the scleral lip easily as the back of the suction cup is against it instead of back of it. The lens must be completely dislocated before yer ion is begun

If the iris gets in between the lens and the suction cup after the lens is turned it is well to interrupt the pa sage of the vacuum thereby loosening the cataract and then take hold again This works well if the iris is caught above or laterally but not if it is caught below because the cup comes off from the lens Care must be taken not to ensnare the iris below D location of the lens should always be begun below the lens being pressed backward by summating the forearm and the zonula then de tached above by pressing backward with move me ts of pronation During this process the sur geon must not attempt to stead, an unruly eve with the astrument If his hand t embles after the lens has been completely detached it may drop back into the atreou as the hyaloid membrane is destroyed

Although B reaquer states that each detail of the method must be carried out minutely in the first operation, the author says that he must depart radi ally f om e ery step Barraquer recommends the cone scleral inci ion to include the upper tw fifths of the corner. The author states that it

not always possible to expre s a cataract in its capsule through an incision of this sile. The minimal safe st indard is an incision of 180 degrees. An inc sion of 200 degrees 1 better Barraquer warns against making pressure with the astrument on the lens and against compressing the vitreous He intimates that the hyaloid membran remains inta t He cla ms that he has never had a loss of treous He guards against the danger of hid

p es u e by having his ass stant hold the hds PERMET AICCOL ALD

EAR

Wisenbu g T II Some Neu ological Complications of the Ea No e nd Th oat Ach 0111 21 197 460

The author stat s that he has never seen definite p pillordema second ra to infection of the nasal arc ssors nuses Opt c n untis occurs in posterior ethmo dal and spheno dal I s on but seldom ex eeds 3 d opters

In c ses of brain absce s the hi tory is often misleading Vestibular tests are of great value in the l'agnosis but re not infallit le

In the diagnosis of meningitis it i important to differentiate between the so called serous or sympa thetic meningitis in which prompt surgical interven tion 1 indicated and the purulent type in which operative interference is of little value

JAMES C BRASWELL, M D

Sears W II Herpes Zoster Oticus Ot I RI 1 C L ry 11 1927 XX VI 361

Sears reports three cases of herpes zoster oticus This condition is uncommon although from S to to per cent of all cases of herpes are cephalic Atten tion is drawn by the author to the complex inner vation of the ear

In 1000 Head and Campbell estable hed that the essential lesion in herpes is a hamorrhagic in flammation of the posterior root ganglia with de g neration of the peripheral and posterior nerves The infection is usually unilateral but bilateral involvement has been reported. The relationship between varicella epidemic encephalitis and herpe zoster i nolex has not been dehintely established Animal inoculation is extremely difficult

In the pro fromal period the symptoms vary from a mild lassitude to severe chill and prostration Severe lancinating pains or a burning sensation usually precede the appearance of the herpes. The area in which these sen ations appear depends upon the ganglion attacked Postherpetic pain or hypaesthe in may appear and persist. The fir t objective sign is a diffu e hyperemia upon which the vesicles appear singly or in succes ive crops After a few days the le sons disappear leaving small nigmented areas or cicatrices

Intra-oral lessons with a definite neural distribu t on have been observed Complete facial paralysis and palatal or lary ngeal pals es are not uncommon These palsies are usually temporary but may per sist Dealness of an evanescent or permanent char acter may be associated with the herpes Vertigo and disturbance of equilibrium are occasional sequela

In a typical case the diagnosi is easy with swellin and crusting of the auricle may simu late acute otitis media or mastoiditis

II VI PATON M D

Wilkinson G Ha e We a Resonance Theory of Hearing or Only a Resonance Hypothesis? J La y 1 1 6 0! 1 1927 1 363

It is generally recognized that the resonance hypothesis which offers a satisfactory solution of all the main facts of hearing is favored by all of the po stive evidence but the difficulty has in the acceptance of its mechanical possibility. It seems ah urd to believe that a some of strin sin the cochlea varying in length from 16 to mm should be able to resonate to tones ranging over ten octaves There fore to establish the resonance theory more direct light on the mechanism of the cochlea is nece sars From reliable investigations we have a com

plete chain of evidence to show that the receptors

given case 1 determined by the elasticity of the lens or the state of maturity of the cataract

With the cataractous process zonular frag lity is increased The zonula is more fragile also in my opes than in emmetropes and hypermetropes. In the zonulæ of persons more than 40 years old the linear stretching amounts to only 1 mm whereas in young persons it may be twice as great. In an emmetropic eye more than 40 years old a weight of 30 gm is sufficient to break the zonula. In the cataractous eye the weight necessary to produce such rupture diminishes in proportion to the maturity of the cataract. In Colonel Smith's experience the strength of the zonula decreases progressively with age myopes being no exception and is in general unaffected by the onset of a cata ractous process. However if the cataract takes the morgagnian line of development the strength of the onula is reduced below the normal for the patient s age

The attempt must be made to regulate the in tensity of the vacuum in proport on to the hard ness of the cataract. The latter may be determined with great accuracy, by examining the eye after didatation of the pupil measure g the depth of the anterior chamber and the distance between the anterior disabler and the great of the focal illumination of Guilstrand ard the content incressory of could be greatly and the graduated drum, determining whether there are any transparent portions in the left.

It is claimed that in phare sets a the greater the altitude of the wheatons the nearer the soulist ruptured to the suction cup of the pne matter loreep. As the intensity corresponds to the his neither of the soulid do not rupture when the intensity is insufficient whereas when the intensity is insufficient whereas when the set of the zonula date moment the catalogue and the intensity is e.g. e.g. when the present is drawn upon indicates that the vacuum employed is of excessive intensity.

Finally the adjustment of the intensity of the vacuum and the altitude of the vibrations to the strength of the zonula must be conside ed. When the cattaractors process is not well advanced the zonula is usually less fraible and a gre ter number of interruptions of the vacuum is netessar. In the en uphale the number of interruptions in the categories and the processers at the intensity of the vacuum is the dammalshed.

by the regul tor All of the claims for phace eress h we been based on the hypothesis that the rupture of the zonula close to the periphery of the le s in this method is due to the "Dirations"

This allustration Barraquer has shown the least to be dischard immel fatch by the application to it of the vacuum and wheations but the nucleus on to of the vacuum and wheations but the nucleus of the control of the profession of the vacuum and wheating the control of the nucleus of the vacuum and the suction cup and grapped by a even though the lens capability of the extra the subset of the control of the c

A simple experiment with fresh human cataractor lenses however vall show that this does not occur The capsule and as much soft cortex as it will hol are ucked into the cup If the nucleus is large an the cortical matter is small in amount the capsul is drawn tightly a ound the former. If the catarac is of the morgagnian type the small nucleus s nk to the bottom of the fluid in the bag in which it i Consequently the application of th contained vacuum takes up little of the slack in the anteno lens capsule. If the zonular attachment is eak there is a di location of the le s but if it is strong the attachment will not break until the st ain i increased by pulling or pushing and the break wil occur at the weakest point regardless of the vibra tions If the capsule is weak in relation to the in tensity of the vacuum employed it m v burst This can be very well shown in expe iments on pigs

eyes fresh from the slaughter house.

Barraq er a stucces il results in caset of catarat
in hich the sould in year strong seen, i se de
in hich the sould in year strong seen, i se de
in the property of the strong seen to be caused
though not sufficiently to cause I se of the utreus
though not sufficiently to cause I se of the utreus
to fill the space vacated by the latter. There is no
reason why there should be a I se of utreus an opressure i applied to the externor of the walls of
the vitrous chamber.

Cruickshank h s explaine I why the su geon mu t not atte pt to turn the lens over inside the eveball but he misses the point that while the lens must be rotated about a transverse as which lies in the plane of the suction cup the shaft and ha dle of the instrument are set at a angl of abo t 45 degrees with that plane and this gir es the surgeo le er ge which exerts immense force in the leps without h a realizen at and compels him to swing the h ndle about that axis by mo ements or pro ation or supination of the writ and forearm. It appear moreover that the sensations of the finger tips ar a poo gud as the i strument must be gripped constantly to press the val e which transmit the v cuum to th suction up One succes ful pe ator has stated that there I some tuck in the use of th instrum at which he could ot expla a

Cruckshapk says also that because of its tender only to 3 por to be dragged off he uctin near each to 3 por to be dragged off he uctin near spread against the postern resurface of the corner of the same to be suffered to the corner of the same to the same to

affected by radiation than similar growths elses here in the body

Carcinomata of the larynx have been classified as (1) intrinsic ar sing I om the cords ventrules ven tricular folds interary tenoid and subglottic area and (2) extrassic arising from the epiglottis ari teno ds aryepigiottic folds pynform sinuses and the phary ageal surface of the cricoid cartilage

The intrin ic form is the more common structures most often primarily involved are the The condition develor s slov ly Metas vocal cord tan is late because of the confined arrangement of

the lary ngeal ly raphatics

The extrinsic form meta tasi es early but the prog no s should not be as hopeless as is generally sup posed In all cases of chronic cough faryngitis or hoarseness and in those in whi ha tumor is known to be present cancer should be excluded Because of extensive involvement that had been allowed to occur before a correct diagnosis was made not one of seventy five cases of carcinoma of the lary nx seen in five years was suitable for laryngof ssure. In all cases with any suspicion of malignancy whatever an examination should be made by a skilled laryngolo gist. In the last stage of the disease with dispince foul breath gland enlargement etc the diagnosi is

e adent The differential diagnos s of carcinoma tubercu losis and syphilis is difficult. Two of these diseases may occur simult neously. In all cases skillful and epeated laryngoscopic examinations followed by

biopsy should be made

In 1925 about 5 per cent of the 78 000 deaths f om cancer were due to cancer of the larynx Oper able ases should be treated surgically when pos ible radiation has been di appointing Radiation should be used in inoperable cases in cases in whi honer att n is refused and for the postoperative t eatment of the ext ins c form of cancer

For the intrinsic fo m the treatment should be I rangonssure for growths limited to the cords and total larengectomy for all others Endolaryngeal emov I and hemilary ngectomy are not recom

mended

If lary ngofissur is done fulguration of the growth s preferable to excis on because it prevents hæmor rhage lessens pulmonary compli ations and usually

obviates tracheoromy

For cases with extens on beyond the cords total laryngectomy is the only means of possible cure Many pat ents who have had this operation are alive and able to work after from two to fi e years and h ve plendid bu cal voices. A one stage operation under rectal anasthesia i done The head is placed lower than the body and extended to br ng the neck into pr minence I Tincision is made from the hvoid down and across the byo d All tissues and muscles superficial t the larvax and trachea are ret acted or cut the lars vi completely freed from att chments and all bleeding controlled

The trachea is then opened between the cricoid and first ring a flap of mucous membrane from the

posterior surface being saved if possible for suturing forvard to the skin This is an effective barrier which keeps secretions from entering the traches duting convalescence. The larynx is then pulled unward and separated from the trachea and a rub ber tube is inserted into the trachea to protect

respiration The larvax is dissected free from below upward to above the arytenoids and returned to its normal position. An opening is then made into the hypophary nx in front through the thyrohyoid membrane the entire buccal cavity is packed with iodoform gauze and a careful inspection of the growth is made As much as possible of the mucous mem brane is saved to aid in closing the pharynx but if the growth 1 extrinsic wide excision becomes nec

A feeding tube is put through the nose into the stomach and the pharyngeal opening closed with two rows of No o catgut

The trachea is attached to the skin by removing all fat from the skin edge and the first ring of the trachea submu ously

The muscles a e closed in the midline Drains are put in all four corners of the wound and brought out at the midline just above the tracheal opening. The transverse skin incision is closed. The midline inci sion is left open around the drains A No 8 tra heal tube is put in place and the wound dressed with bichloride gauze

During the first ten days after the operation com petent nursing is essential. Drugs that inhibit the cough reflex should not be given Suction apparatus and a bronchoscope should be on hand to keep the trachea clean The tube should be cleaned often and all necessary instruments should be close at hand The patient should be propped up the day after the operation and should be out of bed on the third day Swallowing attempts should not be allowed the first few days The mouth must be kept clean Liquid food of suitable calorie value should be given. The bowels and kidneys must be kept active

Paeumonia is a very serious complication prevent it the trachea must be kept free of secre

tions and blood clots

Secondary hamorrhage may occur from sloughing Mediastinitis is rare following operation by thi technique

H cough may be relieved by changen the post tion of the feeding tube

Dyspuces may result from th clogging of the trachea with blood or secretions

In cases with extensive involvement it may be nece sary to remove mor tusue even including the common carotid the internal ju ular an i the vagus nerve on one side An osophageal neck fistula may be necessary temporanly

For extrassic growths high up around the epiglot tis and the base of the tongue a subbyoid pharyn gotomy is done the growth exci ed with the radio bufe and the wound closed without drainage

BIRRETT BROWN II D

for different pitches are ducrets and independent The ear analyses not only the pitch of sound but also the relative intensity of a complex mass of sounds and the frequency of the constituent umple waves Therefore the analysis according to frequencies can be done only by resonance. The slands of hearing in the congenitally deri point to an arrangement of the tone receptors in a con

tinuous graduated series In an attempt to solve this problem the author conducted experiments in which a working appara tus embodying the physical conditions found in the cochlea was subjected to vibrations of different frequencies to determine whether the latter pro duced a series of localized responses at level vary ing with the frequencies employed believes that the models showed this gradation of response according to pitch levels thus illustrating in a remote fashion the delicate resonance mechan ism of the cochlea. His theory of cochlea function is that the fibers of the basilar membrane resem bling the strings of a musical instrument are differ entiated by length tension and mass the latter being the loading of the basilar membrane by columns of fluid intervening between the round and oval windows Such a differentiation and the evidence of the models give a fairly comprehensive resonance theory of hearing which explains the method by which tone impressions are transformed into sensations of tone

GRORGE R MCAULIFF M D

Fraser J S A Case of Congenital Desires Showing Mallo mation of the Bony and Membrahous Labyrinth on Both Sides J Layet 1 5011 1002 xt 315

The author reports a case in which the right ear showed the developmental e rors in the loop and membranous labyrinths described by Mondam and Alexander while the left ear showed a radium tary vestibule a cochler containing no neuro-epi thehum and complete absence of the semicritary canals. The patient was a boy y years of age the volunges of twelve children all of whom were born healthy. He showed some hydrocephalus and was very poorly developed. Death occurred during ethylchloride anaesthesia for removal of the tonsils and was attributed to status lymphatrus.

was attributed to status lymphatutus of microscope examination the right ruddle ear showed poorly developed stapedius and tense tympan muscles a fosts a who are patern for an addition the lympaner and a round form the lympaner and a round status of the patern for a feed from the lympaner and a repet patern for a feed from the lympaner and a repet patern for a feed from the lympaner and largely filled up by folds to a feed from the lympaner and largely filled up by folds on the same and attended and the modolus poorly formed a feed and a feed from the called a feed from the control of the feed from the lympaner and the modolus poorly formed the called from the from the feed from the from the feed from the fe

Examination of the left ear showed practically normal middle ear structures. In the nine car the cochies consisted of only a single coil. The modeline was a sheen! and there was no cochies nerve no equeduct and no division int scale tympain coils vertically and seal cardial. In fact no networks we have the contract of the contract o

Three poss ble causes of the laby nintine changes are (1) a developmental error in the germ plasma (sporadic consenital or constitutional dealness) (2) inhented syphilis and (3) intra uterior meninguia of non specific origin (Croker & McAyurr MD)

Smith J M The Man gement of Internal Ear Infection Report of Six Cases Lary 1 p

Smith states that the manifest symptoms of mempitis are preceded by an increase in the relis in the spinal fluid. He believes that the dura should not be opened or the Neumann operation performed when there is ab ence of free bacteria in the spinal fluid.

A labyrinth operation is contra indicated in cases of perilabyrinthitis and when functional citivity still persists

The best laby rinth peration is the Hinsberg procedure JAMES C BRASWEL MD

kopetzky S J nd Almour R Erysipelas Fol lowing Bacill s Pyocyaneus Infectio in Mastoid Wounds Am J S g 19 7 58,

kopetaky and Almour report h e ca es of ery spelas foll wange bacillus proce neus infect on of the mastord wound. In three of the cases the strep tococcus barnolyticus was present in the pus in the mastord process but after the appearance of the pyocy, aneus infection it was billed off and could not be isolated in cultur's JANGE C BR SWE, N D

NOSE AND SINUSES

Lewis F O Th Tre tment of Can et of Pata nosal Sinuse Tonsiis and Laryns S g

In cancer of the paramasal sinuses tonsils and larynx very gratifying results may often be obt ned when the condition is recognized early and prompt rational tre tment is given

For antral growths the external opening advocated by Greene may be used. This remains open a d has the advantage of allowing thorough inspection of the area at all times and I necessary the repeated application of radium. One pat ent who had an adron occurionm as well after four veers and the opining accuration of the soft of the control of the control of the control of the anitum all but three we e h peles.

Carcinoma of the tons is huld be treated by radium in preference to operat nut seen early enough for curative teatment. It is more furnishing

who are receiving todate in preparation for operation should be under do e supervision as the long continued use of todate in this type of disease is decidedly harmful in a vast majority of cases

R \ B SKIER M D

Eich iter G Fistulæ and Stitch
Following Goiter Operations (Zu
F telbid ng u d de L gat t
K oploperatu en) t ch f kl Ch 9 7 cxli

Eichelter reviewed 150 cases of gouter shich were operated upon in the von Eiselsberg clinic in the period from October 1931 to October 1931 to October 1931 to October 1931 to Eiselsberg clinic in the part of the part of the second of the part of

Careful hamostass' covering over of the remains of the throat the leaving of smooth surfaces and care in the u e of drains are of special importance Operation should never be attempted in the presence of even the slightest infection or angina. In the cases in event paraffa using place of the treatment of I gature fistuals consisted in the u of lunar caustic and salves. In some in tances the entire fistulous tract was exceed in the case in the colour stream of the presence of the case of the colour streams of the case in the case of the case

Richte H M and Zimm rman L M Latent Postoperat e Tetany S t Gv c - O5:

1 67

Postoperative tetain vis usually thought of as one of the niteque at complications following thy outer torm. Stat ties from various clinics sho that its average incidence is slightly more than 1 per cent. The den of manifest tetain in the authors cae as 115 per cent. It vas noted however that ertain patients showed evidences of increased neuromuscul f excitability, that is a latent tetain without the long manifests mpt ms of the torm, without the long manifests mpt ms of the control of the contro

In a se ies of 100 onsecutive cases studied for po tive Ch o tek and Trous eau signs po itive reaction we e beer ed in fou teen If the electrical excitability had been measured and the observa ton h i bee made more frequently the number of po its e case would und ubtedly have been higher In some of the posit ve cases a fall in the blood calcium could be demonstrated but on the whole the were a striking differences in the calcium les is in tetanic and non tetanic cases hpp enthy ufficient damage had been done to the parathero ds to increase the persons excit ability but not sufficient to cause a gr ss disturb nce f the cal sum metabolism This suggests that the alcium d ficiency is one of the associated phen mena r ther than the cause of tetans

In most instances the tetans remained latent but in two manifest symptoms became apparent

and active tetam, developed. The ever pre ent possibility, that latent tetam; may become active when an unusual demand is made upon the parathy roid such as occurs in seasonal charge trauma infection menstruation preganacy and lactation demands the early recognition and treatment of latent cases:

The phenomenon of latent tetans after gotter operations has been reported from vanous clauses and is thought to have become more frequent since the war together with increased frequency of spontaneous neuromuscular hyperecutability which has been attributed to faulty neutrino due to the war of the neutrinous states that prevail the impaired untituously attest that prevailed the impaired during and after the war could not account for the occurrence of the tendency toward the development

of tetany in these cases

The incidence of latent postoperative tetany vane with the extent of the operation. The size or type of the goster seems to have no bearing what soever The parathy road insufficiency seems to be due directly to mechanical operative trauma The mildness and transient natu e of the symptoms speak against gross material damage. In none of the thyroid specimens removed at operation during the past year could parathyroid bodies be identified either grossly or microscopically. It is much more probable that the symptoms are due to slight injury such as that caused by pressure from a hæmostat inclusion in a ligature or pressure due to hamorrhage or ordema Interfe ence with the vascular supply to the glandules may explain tem porary disturbances of function which di appear when the circulation i re established manifestations appearing late are probable due to injury from cicatricial contraction

The prophylactic treatment of tetam is directed toward the presention of operative injury to the parathyroids. Numerous procedures have been adocacted for this purpose. The number and location of the glandules is extremely variable and in the presence of gointer the variations become greater. Care must be taken in the bandling of the tissues particularly the posterior laver of thyroid tissue must be preserved. In spite of all precau tions he ever a certain number of injuries to the parathyroid glands are unavoidable if thyroider comies are made sufficiently radical to cure tour.

Active treatment has been directed to and the replacement of lost tssues. Calcium in large obes will control the manifestations of tetiny and tide the patient over the acute stage of paralthroad insufficiency until the paralthroad insufficiency until the paralthroad paralthroad insufficiency until the paralthroad paralthroad tidel to the losdy has adapted itself to their loss Replacement to the body has adapted itself to their loss Replacement to the body has dapted itself to their loss replacement of the paralthroad tidel to the control of the paralthroad tidel to the paralthroad tidel tidel to the paralthroad tidel tidel tidel to the paralthroad tidel tide

NECK

Belk W P Branchlogenic Tumors of the Neck S rg Clin 1 1n 1927 1 453

Branchiogenic tumors have been studied for years as sal vary gland tumors. Interesting articles upon them have been published by Wood Will on and Willes and McFarland The cases reported to

date number 350 The author reports ten cases Branchiogenic tumors are characterized by a location in the lateral aspect of the neck most oft n in the paroti i region a histor of long luration a slow growth often b coming accelerate 1 and a tendency to become cure I by local excision. Some of them erode and compress locally while others

form distant metast ses

Structurall the tumors are of a mixed type showing my tomatous tissue cellular and hyaline connective tissue cartilage endothelial cell and squamous cells. The hi tological app arance is one of malignancy McFarland has said that all mixed tumors of the neck are branchiogenic but that all branchiogenic tumors are not m aed

The first four of the ten cases reported by the author were typical. All of the pati nts ar hying and apparently cured. The six other cases ran a tatal course three with distant metastases

The benign group of cases yield well to excis in but poorly to radiation. Because of the ten lency of physicians today to raliate malignant tumors it is imperative to make an accurate diagnosis at the patient's first visit. The points in favor of a diagno 1 of m I gnancy ate prin and r pud growth deep fixation short duration and of fer age inci lence of the tumor R & B Saire MD

Marine D The Use and Abu e of Iodine in the Treatment and Prevention of Golter Md 97

The author calls attention to the fact that the there I gland underg e a definite cycle of cell changes and so far as is now known only one cocl during the development and regression of gorter Degenerations atrophies hamorrhages cyst forma tion etc are secondary and should be separated from the primary changes

On the bass of the physiology chemistry and pathology of the gland disease d stu bances may be classified as (1) thyroid insufficiencie (a) simple gotter (b) myxeedema (a) Gra es disease

Iod ne ha been used in the treatment of go te for one hundred and seven years and in its preven tion for ten years Since the day'o ery of to line as a normal constituent of the thyroid research in the helds of physiology chemistry and pathology sup ports the view that simple go ter i a work hyper trophy depending upon an absolute or relati e defciency of todine the etiology of which a not clear The absolute def ciency manifests itself in cases of endemic gotter while the relati e defi iency is een in sporad c goiter of adolescence pregnancy infections ab ormal diets and Graves disease

The amount of sodine required to prevent the onset of gotter is o I per cent of some per gram of ined gland Experiments by Lenhart and the author showed that I mgm of sodine given by mouth once a week was ample to prevent thyroid enlargement in puppies living under cond it as which produced gotter in controls It was shown also that adding sodine to vater one part per mill on completely protected brook trout Feeds whole hashed sea fish once a week also protected brook trout The observations of othe workers indicate that I mgm per eek not only prevents but causes regres ion of thyroid entargement in children The amount of todine requi ed for the prevention of gotter in man is exceedingly small bing about or mgm daily that is a total of 36

mgm Jearly To plans of g iter pre ention are now on trial fir t the use of tablets containing a mgm or more of todine given at weekly ther als and eco d the use of sodized salt. The author 1 convinced that the general use by the public of indized solt of too high an iodine content has been productive of much harm in the management of poster. Experi ments in salt admini tration are being carried out in Suitz rland and It is under more favorable con litions than in the U ited States due attention being paid to the physology and pathology of the thyrol I and the sodine conte t of the salt placed upon the market being c refully stimated author is convinced that Craves disease his been caused or aggravated by the e cessive use of jodized salt but a certain also th t the injury done in th way has b en negligible in comparison with the in tury no being done by the e est eve of todine in other form The use of alt is the m st n tural and the simplest means of di tr buti g the tr ces of sodine required in tood if adeq te control can he established

With r gard to dine in the treatment of simple goster the author advocates the admi i tration of d siccated thyroid in o gm and certainly not g eater than o 2 gm doses d ily for period of tho vecks If after two n eks ex minati n show changes in the pulse rate or body weight the treat ment may be repeated. After an I terval of it me one to two weeks 10 m m daily should be go n for a period of two or three weeks byrup of his driodic acid and syrup of ferrous iodid n c cm closes are suitable preparations for admi stratio The a ther points out that tec of Lugol's solution contai s approximately 124 mgm of 100 ne It will be seen that the am unt of jodine u ed in th treatment of gotter is titly times greater than that recommend d for pre ention

With regard to sodine in the treatment of Graves disease the author believes that sodine decrea es the exhaustion crises so characteristic of the dis ase and love a the operative mortality not primarily because of a lowers g of the metabolic rate but because todine to some unknown was rat es the patient's resistance. Fatients with Graves disease

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Villaret M and Bailby J The Outcome of Craniocerebral Injuries as Evidenced by Re Examination of 500 Patient from Ten to Twel e Years After the Accident (L vem de tam téscra o-céréb u b é ur lét de élec t néed 500 c r sd åd ea sap slables su) Press med Pa 97 14

Of 500 patients with cramocerebral injuries te examined from ten to twelve years after the acci dent 26 per cent had late complications consisting in an increase in the existing d turbance or the late appearance of subjective motor sensory or

mental disturbances or epilepsy

Le ions limited to the external table i ere not so benign as expected as they led to late cerebral com plications such as headache vertigo memory de fects cerebral fatigability or eg lep y The super ficial skull wounds followed by nervous or psychic troubles may have been produced by violent acc dents which injured the subjacent bran In the ca es of patients seeking compensation the interpre tation of the subjective symptoms requires great

In ca es of wounds without brain injury in which the dura was opened by the accident for surgical exploration r for the evacuation of fluid and in

h ch the immediate danger of meningeal infection had passed late complications were less frequent and u ually consisted in epilepsy

Uneva uated subdu al hematomata caused sub

jecti e disturb nees r epilepsi in every ca e immed te danger of opening the meninges hos ever is very great and perhaps exceeds that of the late d sturb nces Whenever subdural hæmatoma

left u cpened at operation f fear of infection this hull be taken nto onsideration when the

di ab lity s estimated

ı

C an al injuries with cerebral de truction were mo t pt t devel p late complications mo ement made a the e traction of a foreign body renders the prognosis less favorable. Old e acuated absces e nea ly alwa s led to trouble doubtless from the p ogressi e ci at ici l reaction at the site of th c vity Foreign bodie retained in the brain ne e well tole ated gener Il and showed no special tendency to ause late disturb n es. The complica tions we ed e not so much to latent infection as to irritat I si n o cat ces of the cerebral cover ings in which the foreign bod es were located it thr ugh which thy halpaset

The late mortal to in the cases re e ed was low 1 34 per cent In ca es revie el by Tuffier and (ulla it w s I 4 per cent The chief causes of i ati were a slowly developing brain absce s or

some condition made worse or developed at the time

of the cerebrospinal injury

Subjective disturbances vere increased when the dura was unopened and were often related to the cicatricial changes in an une acuated hæmatoma They were not verifiable by an objective examina tion and at times were maintained or augmented by anxiety over compensation

Epileps) the most frequent complication some times developed late. In eight cases it developed after a year in five cases after two years in three cases after three years in five cases after four years in three cases after six years in five cases after seven years in two cases after eight years in three cases after nine years and in one case after eleven years. The period of latency wa in inverse propo tion to the depth of the wound rang ing from five to seven years in lesions of the cranium alone to from one to four years in injurie of the meninges or brain Epilepsy developing after a simple skull lesion tended to disappear (fourteen of twenty three cases) Its complete cessation and re currence after from seven months to seven year occurred in cases of deep serious lesions (seven cases of a high three were cases of cerebral abscess and two were cases of retained projectiles) At times it became progressively more marked after an evolution of variable duration (up to ten years) Even when it became general very rapidly it wa nearly always of the jacksonian type at the on et Ot ninety-one such cases seventy nine showed injury of the parietal region and in the ti elve others the lesion touched the motor area or there wa an ex tensive bone flap prosthesis or a hematoma at th level of the fissure of Rolando

Motor disturbances such as spastic paral is oc curred only when the rolandic area was more or less destroyed They showed no tendency toward regression. The contractures increased progressively The functional interference became greater and the disability became complete in from three to ten The flaccid paralyses showed no tendence to grow worse but never completely disappeared The monoplegias and hemiplegias e olved alike

Severe types of mental disturbances were exceptional and related directly to frontal lessons. They consisted in melancholic depression chronic psy choses and at times total disorientation necessitat ing institutional care. The more benign types were the res dual 1 sychic syndromes such as the dis turbances of memory attention an I character de scribed by Villaret and Mignard

Disturbances of vision never persisted in their primary seventy but never completely di appeared and always left concentric shrinkage of the visual fields h mia opsia or scotoma They were not

with very gratifying results. Tetany may be controlled by, changing the intestinal flora to the action type. The regime developed to accomplish this consists in a meat free diet liquids in large quantities a minimum of i qi of milk daily, and from 100 to 300 gm of lactore per twenty four hours. In severe cases the administration of water in large quantities by, means of a duodenal tube or the injection of the parathyroid hormone will give prompt relief.

Major R II Orr T G and Weber C J Observations on the Blood Guanidine in Tetania Farathyreopri a B II Joh Hopki a II o p R It 1927 1 287

1 possible relationship between tetania para thereopriva and guanidine intoxication has been sugges ed and experimental work showing an increase in the blood guanidine after thyropara thyroidectomy has been presented in support of this theory By means of a colorimetric method the authors have found it possible to demonstrate methyl guanidine in the bloof in amounts as small as 0 2 mgm per 100 ccm With the use of thi method they determined the blood guanidin content in a group i animals after the injection of varying amounts of guanidine compounds \ hen ever the amounts injected were sufficient to pro duce tremors and convulsions a marked increase in the guandine content of the blood could be demon strated Doses of guant line hydrochlor de insuf

ficient to produce symptoms—e en doses as small as o of gm per kilo—produced a distinct rise in the guanidine content of the blood when injected subcutaneously

In a series of animals the blood pumpine was atted of after partity-indecteopy. In one of six dogs with fetany a po sible increases in the pumpine content of the flood va a found during an attack of tetany, but in none of the other determ anions was such an increase detected. However all of the animals with tetany showed an increase in the uran introgen and non-preten in the blood.

LEO VI ZIMME M M D

W st R The Natu e of the Laryngeal Vibration ich Old y f l 19 7 384

Is the result of the examination of a patient with atrophy of the left vocal cord the author attempted to determine the physical difference in the production of sound wiles and whether the bands vibrate in parallel or opposite phase

From experiments with an artificial laryan the large of a cadave and who trained seems are sonatling surface in co-pinetion with stude so the movements of the surface of a normal phonating largear the conclusion is drawn that each cycle of largeagar theriton consists of one compli from ment of each of the two word bands that these two cements are in opposite phase and that word sounds are controlled in pricth by the adjustment of the pharyn W HIME SEMERTE ON M D hamorrhaged interns of spontaneous origin. In all of the cases revie of thes were relatively late equelse of injune to the he of some of ... hich were major but most of which vere misor the patient coming to autopy or operation from six weeks to eight months after the trauma. In every instance a massive subdural harmorrhage in various stages of formation or recession and surrounded by a discrete cargule was found.

Acord a to Totter there can be little doubt that the bleeding 1 enou origin and occurs from the vessel passing to the superior longuisding and The here with a consistency or the front and a nextle regions and may be blatteral The bleeding is probably slot illosing fr a compensatory accommodistion up to a certain point Audie from the deformst caused by pressure little pathological chairs seen in the brain either growly or meroscopically.

The symptoms are variable depending upon the position and extent of the hamorrhage. Increased intracranial pressure massifest itself as usual

The it cases retor ted are reported in detail. The results of surgical inter-tention are quite good. The condition is probably more frequent than is commonly supposed. The symptoms may not develop until a long time after some frium any posed to be very tivital. Choled disk is usually present and i frequently more advanced on the side of the humations. The age of the patient is apparently not a lyctor. In the case is easier the ages varied from 1,3 to 600 evers.

In some cases the formation of an osteoplastic flap and remo al of the hamais ma and sac may be the treatment of choice but in one case an equally good to talk as obtained by aspirating through a simple trephine opening and leavings the membrane

The harmat mata to not tend to re ur

Cun TC ANDERSO MD

Sym and C. P. Som Points in the Diagnos s and Localization f Ce b al Abscess P. R.y. Soc. If d. L. d. 9.7 x 1.39

The discuss n is himited to cerebral biscess of otic circin sup to all ab cess and localized non support it is neephalitis

The earth 'unploms of ce brial abuse a sare chusch to cod eps in the earth stages headache is us ally prese t but not se ere Later the p cture may hange to one i suppu atthe encephalits with many the control of the c

a company ng infects n is of impo tance. The a gn of ce ebella ab cess a e headache which i

at first suboccipital and later bifrontal or general incoordination which is most marked in the upper homolateral extremity and is best shown by the finger nose finger test nystagmus which is usually homolateral and sometimes an unwillingness in conjugate deviation toward the affected side Tem poral lobe abscess when situated on the left side may result in aphasia if the patient is right handed To determine the presence of the aphasia many tests may be necessary Three signs of importance which are common to temporal lobe abscess on both sides are (t) slight contralateral weakness of the lower facial muscles of expression (2) absence of or a decrease in the abdominal reflexes with increased tendon jerks or an extensor plantar response and (3) a defect in the visual field from invol ement of the optic radiation abscess hes as a rule in the lower part of the temporal lobe and a therefore likely to affect first the inferior bundle of the radiation producing a homonomous defect in the superior quadrants of the opposite

In a case of localized cerebral abserses the cere brosponal fluid i clear and contains a slight excess of cells (mainly lymphocytes) varing from eighteen to most) five per cubin millimeter. The protein content is increased and sugar reducing bodies are present. A preponderance of polymorphomuclear in the fluid the diminution of chlorides and absence of sugar reducing is squally, associated with clinical evidence of meningitis and means that the absences is leading into either the reintricular system or the substractioned space.

are sudden onset of convul ions or paralist of the cortical type and a clear spinal fluid containing lymphocytes. The author reported one case three 3 cars ago and in this article reports another

Sy monds believes that in the course of formation of every cerebral abscess there is a pre suppurative stage of inflammation with engorgement exudation and swelling and that in some cases this process may become arre ted and resolve without pus to mation. The seems to him to be the most p obable explanation of cases in which the signs of a cerebral abscess are present at one time but de appear without the evacuation of pus He reports three uch cases-one that of a boy who had two negative explorations over the right temporal lobe and ultimately recovered another that of a man with undoubted involvement of the left temporal lobe and recovery without exploration and the third that of a boy with signs of right temporal lobe abscess an I recovery six weeks after a negative exploration Adson has reported three similar cases in childr n in which the condition developed after outs media. In two exploration was done but no abscess was found One patient recovered without explorat on

Such cases show that when the general and local signs of cerebral abscess are present a negative exploration does not necessarily mean that an con tantly present in occipital injuries (thirty of 180 cases)

Craniopia ties dil not amelio ate the cond tion and were nearly always folio de sooner of tale to packsonian epideps; especially when they were performed in the region of the fissure of Rolando Complictions after cramoplasty (so per cent of the cases) cre the same as in cases without a prosible is cased of the same as in cases without a prosible is cased of the same as in cases that no in those with an autolosite prosthesis is then in those with a mattel again prosthesis.

The authors conclude that the late prognosis of crani cerebral lessons should be very reserved and that when a mination is negative the relative fre quency of late complications should be borne in much in the estimation of disability compensation

WALTER C BURKET MD
Cushing H and Da idoff L M Studies in Acro

Cushing H and Da idoff L M Studies in Acro meg ly 13 The Bas I Metaboli m 1 h I 1 M d 19 7 xu 673

The observations here reported were made in scients to case of accomments in forty in e of a high the brisal metabolism ranged from +10 + 60 with an average of +18.6 If cases with an average rate below +10 are excluded there remain thirty hos cases; in which the average rate with +10 to the rate was subnormal but incoming the cases the rate was subnormal but intend the rate was subnormal but there cases the rate was subnormal but the rate with a rate of the rate was subnormal but the rate of the rate was subnormal but the rate of the rate o

Actomegals and gotter are often associated. In four such cases in hich thyrodectomy was per formed the thyrode was f und to be of the colled type without the expected es, lences of toucits but there was a fall in the metabolic rate after the operation. In another case a ve.y straing full in the rate followed the administration of Luyon Sutton Some cases sho a fall in the rate follow

ing hypophyserl tree hation

The 're ults of surgic il procedures are more significant and strikin. In eighte a cases in which both pre-operative and postoperative readings were made there was an a e age eduction of an the metabolic rate.

In t enterfort c se of hypopitu tarism assectat d with suggically erific I chromophobe denomata the drop in the metabol c rate after operation

averaged only 16

show collost change of an aderomations type but even so the basin metabout rate has fallen after the operation. On the other tand operator s on the chromophule hypophysical manual state in cases of acromegaly in which the best instability are as elected are followed by a fall instability are to selevated are followed by a fall instability and the collowed are followed by a fall instability and the collowed are followed by a fall instability and the collowed are followed by a fall instability of the collowed are followed by a fall instability of the collowed are followed by a fall instability of the collowed by a fall instability of

It may be concluded that the chromophil c cels of the anterior lobe of the pitutary body secrete a substance which not only contains the bormone of growth but is capable of rusing the basal metabolic rate. This may act independently or through the intermediation of the thyroid. In either case the claim of the basal metabolic rate may properli

be ascribed to the hyperputatant m
GREERT C A.D RSO MD

hosy ew A A Drainage of the Ce ebral tentricles
by Strips of Omentum (Dr. nag. dr. Hm. e.

tribeld the Netzstreet) And film Chr 956

C | 60

Kosyrew has found that frely transplanted strips of omentum show no tendency t form den e

stips of omentum show no tendency! I form denaddres as with but at it sue remain free from enerbotic processes and furnish rehable dramage, mote ia! In draming the cerebral venturies by means of such strips be attempts to award demodation of the burs a max much as possible and to obtain a double dramage of the ventreular fluid in the subdard and substraction of species well as be ow the gale. The procedure begins with the format in of two

horseshoe h ped ped cled those of different users consisting of six ned gales and p no team and bone respectively. We there have no six the mixed cell the hard of the six of original to the six of the six of original to the six of the six of

in this manner Kosyre has perated upon cieven eases two of them bilater IIy Two of the p tients died but the rest sh wed improvement throughout observation periods of at least nire months

Rand C W Cheon c Subdural Hæmatoms Report of Se en Cases A & S g 9 7 m

Seven case of subdu al hamo hage form the basis of this report. These hamo chages differ symptomaticalls and pathologically from the mening al type of epidu tor subdur I hamo hage which generally follow head my use and more closely resemble the protuce of pachymen 213

voluntary movement at the corner of the mouth and in the forehead. When the face 1 in repose There 1 no

asymmetry is scarcely noticeable change in the electrical reaction

COLLEDGE reports the case of a man 32 years of age who had had a master I operation performed in 1921 and develope I facial par y fourteen days later In 1023 another mastoid operation was done There was no recovery of the tactal muscles except for slight voluntary movement of the orbicularis palpebrarum In Ju e 1923 a hypoglossal facial anastomosis with secondary descendens h poglos all anastomosis was done Recovery of all facial muscles to farad sm has resulted

Another case reported by Coll dge was that of a woman 29 years of age who was referred to Feding on account of Bell's palsy showing no int provement after four years 'Ill facral muscles on the left ide showed a reaction of degeneration A descenden nom anastomosis 1 as done descendens nont as found to be appreciably smaller than the facul nerve. The peripheral end of the descendens a as implanted into the side of the hypoglossal A ear later there was recovery to electrical stimulation of all facial muscles and mu cles supplied by the descendens There i as no

paralysi of the tongue

GILL CAREA reports the case of a woman of 29 years who was subjecte I to operation for mastoiditi in 1924 The nerve was paraly zed before the opera tion and did not recover When radical operation was performed in January 1)25 the wound failed to heal The labyri th fell out as a sequestrum immed ate healing then resulted. In an operation performed by Tagge the spinal accessors was di ided belo th nerve to the sternomastoid and mounted to the factal nerve on i to-end

Livrox eports the case of a box who developed complete facial pulsy f llowing an attempt at a rad cal master lectomy in April 1922 The insury to the nerve was out ide the skull 1 rad cal mas told operation was perf rmed later. There has been some recove 3 of po ser

SPINAL CORD AND ITS COVERINGS

Ledoux L bad R and Pot E The Rôle of Roentgen The apy in the Treatment of Tum 18 of the Sp nal Cod (L 1 d 1 r entg to be a p d s 1 t m t des tum rs médull res)

P mtd P 927 x 465

The ratical cure f pn ! cord tumors has been greatly improved by the use of the \ rays Injec ti as of t p odol made into the spinal canal before perat n (S ard nd Fore tier) permit exact to aliz ti n After ope ation the ray is of value fo it urati e powe roentgen therapy alone ha prod ed cu es

F t l cali ation t c cm of oil is injected into the c nal abo e the supposed s te of the lesson and a centg no am is made. The same quantity of the oil i then injected below the tumor and another

roentgepogram is made. The two roentgepograms should indicate exa the the locati n of the neopla m After the operation which should be as radical as possible roentgen therapy hould be given as oon

as the sound has escatrized well

The authors have determined the penetrating power of the \ ray in the pinal canal experimen tally and have e tablished an effective dosage With a tension of 200 000 volts at 3 mm they obtain 1 000 R units in twenty minutes (copper filter 1 mm skin distance 28 cm field 12 by 12 cm) i median field is usually suff cient but at times two lateral fields are u ed to obtain cross radiation of the tumor From 500 to 1 000 R units are administered every two or three days until 4 000 have been given. The irradiation is then stonned for three months and at the end of that time a ner series of treatments is advi ed. The authors have had no accidents but emphasize the necessity for great care

The following four ca es are reported

Case I was that of a 19 year of I boy with a four months history of pain over the area of di tribution of the scratic nerve associated with sphincter trouble and progressive paraplegia Examination revealed diminished sensation over the entire distribution of the sacral nerves and especially over the second and third a partial reaction of degeneration in the muscles of the calf on both sides yellow spinal fluid with 5 lymphocytes and a negative Wassermann reaction. Injection of lipiodol showed the lesion to be between the third and fourth lumbar vertel re-At operation an oval tumor the size of a cherry was removed Histological examination showed it to be a perithelial sarcoma. The operation i as followed by the admini tration of 4 000 R unit in a period of three weeks Even at the end of that time im provement was noted especially a regression of the se sory di turbances Three months later a second course of \ran treatment was given 2 500 R units anteriorly and no teriorly. This was followed by p ogres me i nprovement with ultimate chinical cure that has persisted for three years

Case 2 was that of a man 40 years old , ho was suffering from complete paraplegia and aral ard vesical sphincter trouble Examination revealed a bilateral Babinski reflex hypasthe ia to touch and anasthesia to pain and temperature up to the dis tribution of the third thoracic nerve Deep sensa tion was dimini hed but not entirely gone. In the left groin there was a slightly movable gland. The spinal fluid was yello v and shoved 5 lymphocytes The Wassermann test was negative Alaminectomy s as done at the level of the third dorsal vertebra and a lymphosarcoma measuring 2 by 5 cm was removed. The gland in the groin was also removed and found to have the ame structure as the cord tumor After the wound had healed 6 500 R units were given Two mo the later the patient was able to valk almost normally the tendon reflexes had become nearly normal and sensation had practically returned In the second course of \ ray treatment

abscess has been missed. In such a case therefore it may be wise to allo sufficient time for a possible spontaneous cure before proceeding to a second explorators operation

MERTS CAMPORD MD

Buz ard E F The Treatment of Traumatic Facial Paraly is Proc Roy Sc 1f d Lond

Mckenzie D Postoperative Facial P ralysis Proc Roy Soc M d Lo d 19 7 x 1137 son Williams E Glossopha yngeal Facial Watson Williams E Anastomosis for Facial Palsy Following Suc cessful Translabyrinthine Drain ge for Men

incitis P Ry Soc VI d Lo 1 10 7 17 Coll dge L Hypoglossal Facial Anastomosis for Pacial Palsy Following Ma told Operations

Poc Ry Sc Hd Lod 1927 xx 1 35 Colledge L Descendens Noni Facial Ana tomosis for Bell's Palsy Pr Ry Soc Md Lond 10 7 X 1138

Gill Carey C Spinal Accesso y Faci I Ana to mosts for F cial Palsy During Acute Destruc tion of the I byrinth PcRySc Wd Lant 0 7 x 138 Layton T B Fact I Palsy Five Years Aft r In

jury Por Roy Sc If d Lod 97

BUZZARD discusses the difficulties in the treat ment of lesions of the facial nerve lue to the path of the nerve through the temporal bone and the impossibility of determining in certain cases whether the nerve has been completely divided crushed or merely exposed to the injurious effects of inflamma tions in adjacent tissues. He states that the diffi cults is particularly great in cases of complete or nearly complete division which in the case of other nerves might call for local surgical inter vent on in the form of a resection and reunion operation that for anatomical reasons is precluded in the case of the facial nerve

In general a facial pulsy resulting from a lesion of the nerve in its course through the temporal bone does not call for operative interference and it is necessary to cons der only what other me sures will

expedite the recovery of function

These cases of facial palsy may be divided roughly into is o main groups. In the first may be included all cases which after a lapse of three weeks from the onset of the palsy show even the slightest seturn of function in the facial muscles and i which the muscles do not show the reaction of degeneration to electrical tests. It i d'ubtful whether any treatment will hasten recovers in such cases but gentle rubbing of the facial muscles and the patient's own attempts to carry out facial move ments can be trusted to prevent undue delay Per fect recovery uncomplicated by co tractures or spasmodic contractions may be expected

The second group of cases compris s th se in which the reaction of degeneration is pr sent at the end of three weeks from the date of onset of the pal v In the majority of such cases only time will show whether regeneration is po sible no evidence

of regeneration will be forthcoming until after three or four months In the interval we must be content to employ measures calculated to preserve the nutr tion and contractility of the degenerated and atrophied muscles and to pre ent the develop ment of disfiguring contractures To prevent the mouth from being drawn to the opposite side with consequent stretching of the muscles attached to its angle and upper border a simple apparatus has been desig ed. The nutrition and contractility of the paralyzed muscles may be p eserve l by mas age and by compelling co traction by means of the make and break of the gal anic current

As soon as any voluntary movement 1 possible re-educational exe cises of the muscles before a mirror is the best method of restoring normal con trol over the flatures massage and electrical treat ment are no longer necessary. At this stage post paralytic c ntracture often d elops characterized by some permanent shortening of certain mu cles and he the patient's mability to discriminate i his facial exp ess ons. It is doubtful a hether this com plication can be avoided by any means and treat ment by massage and electricity a of no val e when once the con lition had develope! It is difficult to letermine how long massage and galvanism should be continued in the hope of obtaining signs of nerve regeneration the deci n depend upon special circumsta ces but gen rally speaks if there is no r turn of voluntary m vement o of response to the faradic current at the end of six months it is u cless to perseve e w th th se method

Buzzard states that I is exp is nce with opera tions for anastomo is of the facial nerve is too meager to permit any expression of op nion regard

ing such measures

Mckenzir reports the case of a a year-old boy upon whom the Schwartze operation was per form d eighteen months ago. The d v afte the operation complete facial paralys on the left s de was not ced Reco ery is no progressing An unusual fe ture of this case is the repl cement of the normal closure of the left evelid a spontaneous sinks g by a to itch at the angle of the mo th

WATSOV WILLIAMS report the c e of a noman 6 years of age ho w s admitt d to th hosp tal in February 9 6 with purulent meningitis and a d ad labymith At operation the e tire laby rinth was found destroyed by a large cholesteatoma through which the f cial ner ran The posterior fossa was d ained throught the internal auditory meatus and the fac al n r e divid d Th operation w s followed by complete facial pa alvsis with reaction of degen ration. In Oct be 1026 the proxim le d of the glossopharyngeal er e which was excluded to the stylophar geus w s u ited end to en I to the f ci l erve which was divided at the stylom st id foramen F aminat on on December I sh wed a decre se in the fl bbin ss of the cheek and nearly complete d sappearance of the epiphora There is now very defi ite imp ovement in the tone I the face ith some c pacity I r

the tissue to prove that the nerve plexus itself was attacked

Interruption of the vasoconstrictor fibers in the vasomotor group of vascular di orders mu t be at the sympathetic ganglia either the lumbar ganglia for the legs or the stellate ganglion for the arms. This has been done by Adson and Kanavel in Raynaud 54 ease.

In the author's opinion the usefulness of periyascular sympathectomy lies between the extremely limited application of Samp on Handley and the broadly nelusive ideas of Leriche Slesinger advises it in the following conditions: (1) impending and actual ser le gan rene (2) diabetic gangrene (3) a teriosclerotic gangrene impending and actual including the totic type of endartentis beaming with symptoms of angina cruris and progressing to gangrene and (4) painful conditions of the extremities associated with circulatory disturbance and oreanic vascular chances

Beneficial results are not expected in functional Beneficial results are not as Reynaud disease of Burgers disease. The best results are obtained to disease of Burgers disease. The best results are obtained in the sende cases which may have an arteriosclerotte basis. Because of the constant relief of pain and in many cases the definite circulatory improvement this operation is advised before the adoption of more severe measures in cases with present or impending gangtene.

2 000 R umits were given. The patient was then able to return to his business that of a wine mer chant and after two and a half years the cure was complete except that one abdominal reflex was

sl ghtly less than the other

Case 3 was that of a boy of 18 years who com plained of pain and weakness In both arms difficulty in walking muscular atrophy of the calves clonus and a peculiar gait Laminectoms at the level of the second to fifth cervical vertebræ revealed an intramedullary tumor which appeared to be a glioma Closure was done without any attempt at removal of the tumor After the sound had heale ! the patient was given 11 000 R units in three regions two post rior and one anterior Improve ment was noted during the treatment. Ten days after the last exposure the patient was al le to sit up in bed and feed himself Four months later he was able to walk write and draw Six months later 4 000 R units were given posteriorly and 3 500 R units anteriorly At this time the cure was complete except for a slight tremor evilenced in the han !

writing Case 4 was that of a man of 40 years with com plete loss of voluntary motion in the legs which had developed gra hually over a period of thirteen years The legs were contracted in extension The Luce and Achilles jerks vere exaggerated. Ankle clonus an I a bilateral Babinski reflex were p esent. The abdominal and cremasteric reflexes were gone Pain touch and temperature sensation were absent up to the breast region There was complete loss of sphincter control. The cerebro pinal fluid was yellow and contained 8 lymph cytes The Wassermann reaction was negative Injections of lipiodol sho ed the tumor in the region between the last cervical and the fith dorsal vertel ra Opera tion reverled in this area an angioms which could not be removed Ligation at the two en is was done and the wound closed. Three series of roentgen treatments were given at intervals of four months There was only very slight improvement. The contracture showed some diminution and the pa tient became able to sit up in bed

The authors believe that combined Viay and operative treatment gives better results than e th r Viay or operative treatment alone. They emphasize the importance of the use of keep penetrating rays well filtered and the fact that true tumors of the cord are quite sensitive to the reedigen rays.

MICHAELL MISO MID th

PERIPHERAL NERVES

Bufalini M Late Paralytic Sympt ma in Adulta with Spina Biñda Occulta (Sindrom p r it he tard e 1 d d i d it flette sp b fida occ it) Ch d r d m f b fida occ it) The auth r reports with roentgenograms three

cases of spin bida occulta with se ious p ralys localized chiefly in the lower limbs I t ses the paralysis was spastic and in one case it was

flaccid. The parallysis did not develop until the subjects had reached adult age. In the authors opinion it was due to the occult spina bridg all other causes could be e cluded. The sp na bridg was in the jumbar column in Case 1 in the dos!

column in Case 2 and in the sacral region in Case 3 In a fourth case that of a man of 44 years the symptoms were thought to be a mulated After an accident the patient complained of increasin weak ness in the right leg which was accompanied by dis turbances of sensation None of the other physi tians who examined the patient thought of sp na bifida but the poss ble pre ence of this condition was s ggested to the author by his experience in the three cases reported in this article Roentgen examination showed occult sp na bifi is of the first sacral segment Because of the very low positi n of the spina bilida the disturbances were d'e probably to tract on or comp ession of the root bundles by adhe ions at the site of the rachischisis or to the r becoming embedded in cicatricial ti sue

Audrey G Morgan M D

SYMPATHETIC NERVES

Slesing E G Peri rteri | Sympathectomy
G y s II p R p Lo d 1927 lxx 5

The operation of pena tenal sympathetismy consists in stripping the ma natter of a line in the penascular per, ple us. Thou, hob affects and effertal fibers are present in the penuscular plexus experiments by Langley have shown that each portion of a vessel is supplied by bran hes from the spinal nerves the sympathetic fibers passing from the cord through the white rami sympathetic chain and gray rami to ach the Taylor proved experimentally in the vasoe in strictor fibers run mainly in the spinal nerves and not in the penry suchar plexus.

In reviewing reported cases of pen scular sympathetism, the autho finds that while m avishow little vascular imp openment the rel of o pain as the result of the result of

The technique f the peration is described.
The artery usually chosen s the femoral arter, i
Scarpa's triangle the third part of the audiany

Scarpa's tha

Besides removal of the periva cular plexus other procedures are the Sampson Handley method of salcohol injection a d the Doppler method of pa at ing the vessel that a per cent aque us s lut on of isophenol or phenol Removal of the plerus has the ad antage of all win, micr scopic examination of

breast which were operated upon in the Netherlands 112 (61 9 per cent) showed metasta es in the lymph The corresponding incidence of metastases in England was 57 9 per cent In 30 9 per cent of the ca es of carcinoma of the breast in the lether lands the primary tumor lay free in the breast in 44 per cent it was adherent to the skin and in 25 I per cent there were adhesions between it and the deep fascia and muscles The corresponding per centages in the English cases were 5 8 33 7 and 13 5 It is therefore apparent that the patients treated in the Setherlands were generall in a some hat worse condition at the time of operation than the English patients and when we take into consideration the almost identical operability of the cases of both countries the similar incidence of metastasis and the higher mortality in England the conclusion seems warranted that carcinoma of the breast is more virulent in England than in the etherlands In the cases of carrinom of the uterus which were operated upon in the Netherlands the tumor had al eady invaded the parametrium or the remonal lymph glands in 40 per cent

With rega d to the interval bett een the time when the evidences of cartinopas were first noticed and the time at which the operation was performed it was found that the cases in a which this period as less than one half year were more common in England 1, 80 in 360 cases in England and 160 if ago England 1, 100 in 100 in

These statistics suggest that carcinoma is more frequent in England than in the betherlands

In conclusion the author gives data regarding the induce o of age number of children mu carriages heredity and the onset of menstruation and the menopause on the decelopment of cancer of the uterus and breast. The figures for the two count es are similar Forms a relatively small number of cases the conclusion; resched that in English to the control of the control

TRACHEA LUNGS AND PLEURA

Cavin Pate i G and Barc lia L M Extra pleural Tho acopl sty and Ph enlectomy in the Treatment of Pulmon ry Tuberculosis (Lat acopl t trie et af i tom lia cu d ll tube c 1 polm n) i ch

The auth is report in extrapleural thoracoplas is performed on four patients with no deaths. The peration was done as a last resort its results depend to a great extent on the patient's general condition and the postoperative care. It must be supplemented by medical and dietete measures.

The article includes al o the report of ten cases of phrenicotomy. In the authors opinion the results of phrenicotomy as an independent operation are not so good as is generally stated in the litera ture Even when complete paraly : of the dia phragm is brought about there is a gally a vicarious action on the part of other respirators for es chiefly costal which decrea es the effect to such an extent that it is doubtful whether sufficient com pres ion of the base of the lungs can be brou ht about for the proliferation of connective tis ue which is necessary for cure. Though the immediate results of phren cotoms are encouraging espe ially in well selected ca es the late results are les sati factory However in the treatment of such a erious di eas as pulmonary tuberculosis even moderately good results are worth while when they can be obtain I without dan er by such a slight operation ACDREY G MORGAS M D

Johnson F E Pyopneumothorax in Infants A Report of Ten Case Complicating Pneumon a Am J D Child 027 II 40

I sopneumothorax in infants is often not recognized and occurs more frequently than the hierature indicates. The symptom of air developing is the pleural cavity in infants are not characterities. However when an infant with pneumonia suddenly becomes cyanotic and dispirace the entrance of air in the pleural cavits should be considered.

Tympany coin sound and succu sion may be looked upon as cardinal signs. Roent en ray examination with the patient in the sitting po ture and the blowing outward of the syringe plunger at the time of needling give conclusive evidence of programmothorax.

The prognosis is grave. A favorable outcome depend greatly upon early diagno is followed by adequate drainage preferably by the resection.

WILLIAM F. SHACKLERO M. D.

Fraenkel E The Prognos s and Treatment of Pneumothorax Emprema with Special Reference to Thoracic Fistule (B trag rup opno u ch n Beutel ng nd zur Ther p d s P e motho mpn ms mt b sond e B nt cls htigung ut Th a b 1 l) 2t th f T b k l g 6 l

The author's opinions regarding the treatment of the various forms of pleural emps can are based upon his experiences with purch anothering cases of emps ema among patients of the photocological content of the properties of the pleural evudates when have progressed from a rapid, decledoing several custom transition and period of verb high feet and to cases which develop primarsh as empremained positions of the patients of the patien



Schaedel H The Treatment of Empyema (Z r
Frag d r Impyembehandlung) Bet ki
Ch 1016 CK VW 75

The author advase very great restraint in the performance of in Presection for the drainage of empirema cavities and in the performance of the accopiaty in the treatment of residual empirema cavities of fattle. He states that a rib resection is not a misor procedure as it may render a major intervention such as thoracoplasty necessary later the thorax and consequently disturbed and support of the control of

The best procedure for the patient is the simple t and easiest intervention possible. If nh resection should be unavoidable it is not nece sary to do a thoraxopla ty immediately not even when the fistual has been present for six months or longer According to experience in the World War amyloid dependation; not greatly to be feared

The author bases his conclu ions on five cases

which he reports in detail

In the first case that of a boy 6 years of age with a fstula of three months duration which followed the resection of two nbs and the operang of a tuberculous emply ema by another surgeon the author obtained a permanent cure within eleven weeks by simply removing the drain Three weeks b fore the closure of the fistula he as able only with difficulty to prevent the performance of a thoracoplastiv which was recommended by another surgeon because of the fear of amyloud degeneration

In the sec nd case there was a right sided harmo thorax I om a bomb-shell injury. The autho prevented the interaction which was recommended by a con ult ng surgeon after a febrile course of four veeks. I ou teen days later the fever receded and since then the course of the condition has been

favorable

Case 3 wa that of a soung woman with hermo thorax lue to a gunshot wound and suppuration following a rib resect in The patient came to the ribro for treatment three months after the operation. Sch edd temoved the drain. Three months later a thoracoplast as recommended by a consulting surgeon becaue of the danger of simple degeneration but was refused. The patient concept and it day ele en years later is entirely free from symptoms.

Cases 4 and 5 were ca es of metapheumonic emphema. In Ca e 4 the fever receded fourteen lays fter puncture and the withdraw al of 20 e cm. I streptococcus pus. Today, two and a half years tat the pain and is entirely free from 30 mptoms. In Case 5 the fe er receded on the day of puncture with the withdrawal of 15 e cm of pus.

In the issue ion of this report Tierze (Breslau) wa ned against the usual meddlesome treatment in en in emplema. He stated that the proper

treatment consists in rib resection the introduction of a wide tible in a hole in the pleura which should not be too large and the use of a suction apparatus Special measures are necessary only in tuberculous and parapneumonic influenzal emply ema In meta pneumonic perumonocus emply ema operation may sometimes be rendered unnecessary by spontaneous respontation.

HEART AND PERICARDIUM

Hesse E The End Results of Suture of the Heart
(Die D verresultate de Her aht) 1 handl d
7 russ Cl Long Lenngrad 1926

The author reports upon the end results of suture of the heart in forty eight cases treated at the Obuchow Hospital in Leningrad and top cases reported in the hierarture. Twelve of the patient treated at the Obuchow Hospital were subsequently examined—one of them after fifteen and a half vers Hesse draws the following conclusions

7 Suture of the heart gives excellent results in 77 3 per cent of the cases good results in 22 7 per

cent and poor results in 1 7 per cent

2 In 1 per cent of the cases there is inability to work in 18 4 per cent relative ability to work and in 80 1 per cent complete ability to work. 3 The sutured heart is often able to meet the

3 are sutured near is often able to freet the most severe demands made upon it such as those of pneumonia typhoid relapsing fever chronic alcoholism and heavy military service 4. Ligation of the branches and the descending

branch of the coronary artery in ten cases had no unfavorable effect upon the end result

5 A suppurative pericarditis does not necessarily cause death even in this condition the end result may be good

6 Among the most common complections of cardiac sature are adhesses perscardists and medi astroopercardists which occur in 27 per tent of the cases. The heart which is Innited in 18 movement reacts exentually with hypertrophy. In 10 of the cardium led ultimately to severe decomplete obliteration of the perscarding led ultimately to severe decompensation and death. In such cases present disc thoracolysis is indicated. The flap presection of the risk gives poor results because of subsequent adhesions. Widening of the wound canal in Jay 18 with complete resection of the risk gives poor the public process.

of the ribs is preferable
7 The prevention of intrapericardial adhesions
and secondary infection requires complete closure
of the pencardium and pleura by suture

8 The injury of the heart is not rarely followed by misoarditis with dilatation. It is not impossible for relative insufficiency of the valves to develop on this basis.

9 Aneurism formation at the site of the suture

10 It is roentgenologically demonstrable that the fibrous degeneration of the heart muscle may lead to a disturbance of the contractility of the cardiac wall sensitiveness the cause of which is to be sought in the specific tuberculous disease of the pleura. All of these forms may terminate favorably under

purely conservative treatment

In agreement with the majority of surgeons retuing poeum torax the author has al andoned the use of limitions in case of unmixed infected employme as he has seen no definite benefit from it. With regard to the indications for puncture his works are executably, those commonly hell. He warms particularly against the repetition of pure times in cases of tuberculous of the pleuta a condition characterized by marked lability after any form of interference.

this with regard to the indestins for thoracoplant, the author agrees with the e who advocate cans leral testraint. He ever after the deelop ment of a permanent pneumothorar and when restoration of the function of the lung is impossible or undestrable thoracoplasts should not be delayed

On the ha is of two of his own cases which he reports in I tail the author submits a valuable contribution on the treatment of pneumothorax empsems with fi tals. In one case with thin our and buille two fetule ith little secretion were healed only after repeated exacuation of the exulate but a complete clinical cure and full capacity to work were obtained In the other case a case of external fistula from pneumothorax emprema with an otherwise favoral le prognosis fa lure to perform an imme hate thora oplasts proved to be incorrect The empyema whi h hal been stenle for a long time finally became infected through the fistula which secreted large amounts of nus and although an extrapl sral thoracoplasty was finally performe ! an I the patient withstool it well she died as the result of the necessary supplementary of erats n

from these interesting parallel observations the author draws the folloring conclusions

fistile which have only a slight secreti in an lare apacently nation and not run a straight course may ear it for a ling time with ut developing, a more linder on an intercior do not contra in licate the awaiting of a spontaneous recover. In case of fatule which secrete constantly or in attacks and are therefore very patent tho acoptact should be lone before the onset of mare infection.

The author's own observations include its cases of pneumothorax followed since sorp and security five cases seen during the Worli War. In nor of these cases did a permanent pneumothorax result Rupture of a cassity occurred once (xar (2))

Oelsei I egel B: TI e Treatment of Pleural Employ m A Critical Cont thation (7 Tle pede Ileara mp) m | kntt ch B t g) Bestr # kl Ch g b cxx1 9

Simple thoracot my supplemented by breathing in the control of the

of treatment to being aban loned. If a given tech inque insures through drainage of the pas in employmen the mortality associated with the use of that technique is I relatively little v lee as a criterion of the value of the method as emp emas indicated only a complication of some bas desac offers and is complication for the evaluation of different methods of trainers in must therefor e be based on other grounds.

The deman I made his crops can of any treatment is effect to editating with as little strain on the patients general resistance as possible. This indication is met to a greater or I seatent by various metho is of treatment. The value of any teching we lepen is not only on its use to meet the indications in a given case but also on its wider application in the rush of activity practice. It is ability to effect the trush of activity practice.

a prompt and good functional cure

From this point of view thorae toms is decidedly better than any other method for the treatment of empyems. It is not dependent upon the character of the pus The enticism that its indications are limited because it greatly endan ers the general rest tance is not justified. The danger of respirators and circulatory embarra sment from pneumothorax is not of great moment in emptema except in the very early cases as the displacement fith media tinum and collap e of the lung are considerably hin lered by the infiltrative inflammatory process which is present. The objection that by opening the pleural cavity and producing a pneumotho ax the re istance of the pleura is greatly diminished (Noetzel) is not correct. The inflamed pleura is not pos esse l ol much bactericidal or resorrti e power and it loses what it has the moment an inflammato y process starts and the plastic esudate o granulat on lissue is thrown out a reaction that has as its pur no e the local zing of the infect in to favor healing This f retion is possible only if the poduct of inflammati n are removed. A furth ral antage of simple the ra otomy o er other meth is of tre t

ment lies in its simplicity In the Fischbach hospital a imple thoracotomy supplemented by breathing exercises against resist ance is the method of choice. In sitty four of eventy cases an open thoracotomy was done in four a thoracente's and in one a puration The average time required for cure was sixty days A fistula de e ope I in two cases. There were furteen deaths a mort lits I ope ce t. The anations in the mortal to are generally between o and 5 per cent. The time required f r a c re in koerel's cases a eraged sats fur de a d in Perthes cases eighty three days. The cau e of death in the fou teen fatal ca s t th I ischba h ho pital as sepsis in two miliary tuberculosis in ne ; eumonia on the sound at le in t o and perf ation of the appen lix with subs quent peritonit s in ne In si ca es the cau e of death was not a ertained b t was p obably n t related to the thora otomy as the patient did not die nul some time after the GRAF (Z) operation

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Traster I O Akarge Diverticulum of the Bladder in the Sac of a Crural Hernia in a Woman (Gra de d ett c lo ese cale n acco d erma rurale di donna-re e on -gu n-no e) ir h

l 19 7 m 355 Diverticulum of the bladder is more frequent in inguinal than in crural hernia and therefore more frequent in men than women The author's case was that of a noman of 54 years who for about a year had had a swelling at the root of the right thigh On examination a diagnosi of irreducible crural herma was made Operation was performed under local anæsthesia induced with novocain When the sac was opened it was found to contain a large intraperitoneal diverticulum of the bladder As reduction was impossible the diverticulum va ligated and re ected. The ligation was reinforced by t a cateut sutures in the re-ected margins. The stump was buried in the crural canal. The bernial sac s as then ligated and resected and the stump buned The pectineus was sutured to Poupart's becament and a continuous suture of the subcuta neous tis ue was done. The skin was sutured with books

The discritculum measured 32 sq cm and its neck would admit only a sound of moderate size Histology at examination sho ed that its walls had been structure as normal bladder walls. It was therefore an intraperational cystocied. In this type of cyst cell the lemma is formed of a discrinculum of cyst cell the lemma is formed of a discrinculum. In the case reported the discritication was consected by pertit seem which formed the hermal size.

The author regards his method of suture superior to the classical method. Reco ery was uneventful and the patient; now in perfect health

Storey G N ROAN ND

Schoenhauser L. Experences in the you Eiselsberg. Chiled in the Treatment of D fluss Periton to D not to Periton to D not to Periton to D not to Periton Carlei (D. Erit Prong dr Kimk L et be g b de Behandla g dr d flus no Perito at p net not sur Sp 1 g mit salz ur m Peps) Z t lbi f Ch 9 o 1 334

Of various solutions of h d cohlore acrdiused in the tainent of peritonities a per terri dilute solution wa found to have the best bacterized affect when pepsan solution of a strength correspon ing to that of the no m I gastire juice was added to it. For the past four and shall be rat the following solution has been used at the on bitsel be \$C line 4 \$ c cm of duties thydrohloris and I goo c cm of sterile

distilled water and I gm of pepsin solution of a digesti estrength of I 3 000. In experiments on the nebdominal cavity of the dog it was found that the pepsin prolongs the action of the hydrochloric acid

In a c-ue of postoperative diffuse fibrinopurulent pertionits which decloped sud find (probabl), as the result of the grun, was of the sutures) filtered also after a resection of the stomach by the filtered II method for duodenal ulcer and extrapation of the shrunken gall badder the abdomnal caxity was throughly irrigated with 3 liters of hydro chloric act i persus solutions at a second laparotoms and then close in three layers. Where the healing of an abovers in the abdomnal wall a cure resulte in

In 117 cases of perforation personnits which were treated with the hydrochloric acid pepsin solution their were fifteen death a mortality of 118 per cent whereas in 164 cases not so treated there were fift seven deaths a mortality of 318 per cent From the point of view of the etology of the conduction the results of treatment were as follows

In tandy nine cases of pertonuits follo an perforation of the appendix which came to operation within the first twenty four boxes and in which intrastane with bid occlores and pepsis solution was done and in ten case of prioration of the was done and in ten case of prioration of the state of the prioration of the prioration of the state of the prioration of the prioration of the state of the prioration of the prioration of the state of the prioration of the prioration of the prioration of the state of the prioration of the prioration of the prioration of the state of the prioration of the prioration of the prioration of the state of the prioration of

GASTRO INTESTINAL TRACT

Rasser J R F The Pathogenesis of Ch on c G stro Inte tinal Ulcer and Some Remarks on the Ouestion of a Rational Therapy (D P th ge ese des choschen Magen Darme when a better control of the Chapter Darme

P th ge ese des cho schen Uagen Darmg schwu s bst n gen Bem rku re ur I ge in r rt n ll n Th rap e pe mentell Stui) rg 6 Lede V D burgh

In d scussing the fact that the living gastine memorials in protected from self digestion, the author emphasizes particularly, the plus cal character of the gastine secret on a pecually, the hydrochlone acid secretion. He states that there is general agree ment as to the material from which the hydrochlone

II In one case n disturban e of the bundle of His was demonstrated. In time this condition is appeared.

In the discuss ion of this report. Beauty stated that in one ca e of cardinc injury (the removal of a bullet ir in the wall of the heart with opening of the right venticle and severe lecting) this reset too of the ril was of ne success fulls and the patient is now entirely free from symptoms. He therefore the cost not regult it as always a necessary to in a com-

plete resection

HALFN TORN reported that he prefers the flap
te ection to the complete resection as with the
former the time we cage transis unchange land the
former the time we cage transis unchange land the
flowester only it is following method should be used
to resection of two risk at a certain distant a from
the attenum by means of two forms fall in 1 is
at a get, the interocal spaces the lase of the flap
heing formed at the steraum. This method is
even to the control of the

LEROW proposed the complete resection steen; years ago became a considerable time can be raised by it the approach to the heart is wile ca ught r the immediate I call no of the wound and in media intopericarditi. as Brauer has shown the work of the heart is immediately made easier. The approache holds got also in cases. I faigure to the first the first the proposed of the prevention should not be absolutely about our descriptions of the prevention should not be absolutely about one complete receiving remains the method of choice

Distanting r called attents in to the fact that the cases of Brazes and Hagen Forn were not cress of recent heart injury but cases of the removal of fireign bodies. He recommen led the complete

re ection f r recent injuries

In conclus in ILesse stated that the complete resection of the ribs has the great advantage that it can be carried out more quickly and gires suide arce s to the heart while alter flap re ect on the wind we cann the widered bequently in e set is too narrow.

infected roots were found. In the two other cases penaptial infection was discovered. In the first case operation revealed a small harmorniage spot on the anterior surface of the duodenum and considerable stippling. In the second case (in which gastro-interotomy had been performed previously) the ring of the stoma showed highly injected area. In the third case the stomach and duodenum were normal but the appendix was chronically infected and was removed.

In all three cases cultures were made from the infected teeth and injected into animal. Within a very short time (twenty four hours in the first case) injection or submucous hamorrhage with

singpling was found in the duodenum of the animals in general in operation is performed shortly, after the occurrence of the hemorrhage an acute lesson of the sort described is found in the duodenum if operation is postponed very little will be found to account for the bleeding as in one of the cases reported. The author expresses the opinion that account for the bleeding as in one of the cases reported. The author expresses the opinion that of the case of the case is the case of the case is the case of t

Le it \ Pyloromyotomy According to the Method of Payr in the Treatment of Pylorospasm (L b de Pylo my t me h P yrbet P lor pa mu) \ 1 crh dt d \ 7 \ 5 Ch Ko \ 5 Lem grad 19 \ 6

Under no mal condutions the function of the pylou is regulated by the intravegetative refle es of the entire alimentary tract. By a pathological process in any portion of the intestinal canal these refle es may be increased. There then occurs a pastic contraction of the pilorus whereby the sec etory and motor function of the stomach is dust rhed.

For the treatment of pylorospasm Madlener commende I resection of the plo to sphareter and Het else and M kulter recommended myloroplants. Acc dag to Payr the latte operation has the disadvantage of 60 ming as a result of the transverse statement of the manual properties of the most operation of the storage of the most payr therefore recommends a longitude all suture including only the serosa analogous to the Weber Rammstedt operation on children

The author performed the Payr pal rounwelous in the of his esse After the ope attors the gastre secretion was usuall stron er and the hydrochloric and se retion was usuall stron er and the hydrochloric and se retion was increased regionally second as a half years In order to explain it a series of experiments were carried out. In these it was found that stimulation of the ilocate region with the draid current increased the perutathis in the prepyloric portion of

the stomach and induced pylorospasm. When choin and barnum was introduced into the fleum the effect was increased. The increased per talking stopy sightly pariful but the pyloro pasm causes definite pain and a change in the gastire secretion occurs but this oon diminishes and finally disappears entirely. No conclusions as to the final results of the Pavr operation are drawn as the period old observation has been too short.

In the discussion of Levit a paper SALOU (Pensa) reported the development of pet the user of the symmum in nine of 450 cases operated upon Such a lesson is most apt to develop in persons with a neurotic make up a tendency toward spasm in creased acidit, and faulty plone function Peptic uleer of the jujunum has not developed in Savkovs cases since he has sutured the mucosa with resorbable sutures and has prescribed a suitable post operative dett.

Resanov (Woronez) reported that in 450 operations he lound only one jejunal ulcer. Of importance in the prevention of such a lesson, are careful and bloodless suturing the Braun method of anastomosis and a fluid diet during the first week after the operation.

MAINEER (Lenngrad) stated that in Hesse se clinic visious circle developed in six of 254 cases which a gastro enterstomy was performed. In case of sective vicyous crete the operation should be as simple and as little time-consuming as possible viz. entero entero anastomous by the Branch method. In cases of chrome vicious circle it is better when the patient is strength allows it and the gastric ulter is headed to close the gastro enteros tomy and re-establish permit aconditions.

SFASOULITOINI (Ssaratov) reported that once during another operation he happened upon a pep tic ulcer of the jejunum consecutive to gastro enterostomy and from this fact he has come to the conclusion that the lesson is more common than is

generally believed

FFIRASEUS AAJA (Lemingrad) emphasized the
importance of the neturogenic theory of peptic ulcer
of the small intestine. He stated that this theory is
of the small intestine. He stated that this theory is
of which the state of the state of the state of the state
of which the state of the small intestine a nozine of a
distriat portion of the small intestine a nozine of a
distriat portion of the small intestine a nozine of the
the fact that it frequently occurs within from five
to eight days after the operation. This is explained
by severe unitation of the nerves and by reflex
processes. Feptic ulcer of the jequinum may occur
outerostic operation for seatine ulcer not only gastro
caterostic operation of the state of the state of the
who cannot be operation on the state of the state of the
every type of operation on the state of the sta

krauss (Sarratov) reported a case in which symptoms of victous circle appeared on the ninth day after operation and a cure was obtained by repeated dilatation of the intestine with air He called attention to the fact that when there is and of the gastice juice is produced but that the problem as to how the secretion of the and takes place is still unsolved. He reviews the vancous theories. He proceeds from the observation of Boundary that neutral salts may be spill into and common that neutral salts may be spill into and purpose that the proceeds from the spill into and opinion that by hydrolytic descentation of the chloride sodium hydroude is adsorbed by the chloride sodium hydroude is adsorbed by the hydrolytic neutral spill into the spill into the way protection is obtained against the secreted hydrochiloric and and against the person which hydrochiloric and and against the person which hydrochiloric and and against the person which attempted to prove this create of this theory by experiments on annuals.

Four stoons healthy dogs were fed on nee cooked and tilled water to drink The tree contained only traces of chlorides. During the administration of this det the chloride content of the turne sank to very nearly zero but that of the blood remained almost constant at o of per contained almost constant at o of per after fourteen days no hydrochloric and could be given too C.c. of strongly active, and propen solution obtained from pigs. This was introduced into the fasting stomach through a tube.

The theory upon which the subsequent detrimations were based was that when under the influence of a saft free duet the hydrochloric and secretion of the stoward has ceased no protective sodium hydroxide will be left in the glandular cells giving rise to this secretion and the administered and pepsin solution can carry on its pepsin activity.

unhindered The dogs were killed after twelve eighteen twenty and twenty four doses of the acid pepsin respectively given at intervals of from one to three lays In all definite changes in the stomach were found In two there were numerous very hemor rhagic erosions throughout the gastric mucosa In two others there ere numerous small ulcers in the pyloric antrum and several larger and deeper ones in the duodenum (some going down to the sero-a) In two dogs which hal been given the same diet poor it salt but no pepsin the gastric mucosa showed no changes from the normal after a month In two dogs given the same diet for fifty n ne and eighty two days resp ctively there ere many small hemorrhagic erosions of the gastric mucosa and in one of these dogs there were in add tion two small ulcers of the pylorus

In orier to obvisite the objection that the changes might have been due to a deficiency of vitamines dogs were given a sait poor diet with the addition of vitamines for periods ranging from musty-ore to one hundred and thirty seven days. In none of these entimals were pathological changes found in the stomach of duodenum

In another series of experiments dogs fed on a salt free diet with vitamines are given and per in addition. All of these animals showed pathological changes—small ulcers in the antrum and large ul ear in the duodenum.

In a dog given an ordinary diet of mixed food and 100 c cm daily of the acid pepsin solution for fifty nine days the stomach was no mal

The microscopic findings are repo ted only From the three findings mentioned it appears that first a gastritis developed and that the ulcer formation was definitely of an inflamma tory nature. It is emphasized that the described changes in the stomach occurred only in the antrum and never in the fundus The author assumes that since the stomach of the dog fed a salt free diet no long r secretes hydrochloric acid no sodium hy droxide is retained in the mucosal cells to protect them against the administered acid pepsin and as a tesuit these cells are acted upon by the pepsin The chief essential in ulcer formation according to Rassers is a lack of protective sod um hydroxide in an area with circulatory disturbances due to such conditions as embolism arteriosclerosis and spasm For the surgs al treatment of gastric and duodenal ulcer Russers favors jejunostomy based on the indications given by Lameris KONIETZNY (Z)

Rive s A B Harmorrhagic Focal G strod oden I Lesions Prelim n ry Report of Three Case ir h I I Med 19 7 xxx 564

Rivers presents a preliminary report of the in vestigation of a series of cas s of hamorrhage from the gastro intestinal tract. He i concerned nar ticularly with those cases su pris ngly large in number in which the hamorrhage can of be attri buted to definite ulceration. In many of these the hæmorrhage may be due to varices hepatit's he patic cirrhosis splenic disease or blood dis rasia For lack of other evidence the hamorrhage has been attributed sometimes to ass ciated di ease f the gall bladder or appendix. In some of the latter cases as well as in others in which no such ab or mality could be found the surgeon disco ered some unusual condit on about the pylorus or in the d o denum manufested by adhesions about the pyl us or orderna or stippling of the duodenum. The his tory was characteristic of peptic user but the oentgepologi al appearance did not bea out such a diagno is It was largely the hemorthage which made exploration necessary

In many of these cases a history of attacks of tousillus adentits or acute arthritis just prot to the onset of bleeding suggested a relationship 1 the condition to focal infection. The author report three cases of this nature in which bacteriological study including injection into animals was carried

In all three cases the urgent complant was bemorthage from the stomach Symptoms consist of gastine dustress and in two of the cases has a consistent of gastine dustress and in two of the cases has the conditional case the harmorthight against part of the conditional cases the harmorthight against online or the case of the case o

of importance following operation Whe a reptic ulcer of the jejunum develops a repetition of the gastro enterostomy when the original gastric ulcer has not vet healed is vithout justification. The manner of suturing and the type of suture material are of no great importance. To prevent perforation of the peptic ulcer of the jejunum into the transverse colo the opening of the mesocolon in the perform ance of gastro enterostomy should be made as far from the colon an I as close to the spine as possible

Mushams (Leningrad) stated that under normal conditions the ne ative pressure in the stomach favors gastric peri talsis and that in his opinion krause ascribes to this negative pressure too much importance in the etiology of vicious circle not all

cases can be explained by this theory

LEVIT (Irkutsk) called attention to the fact that in his work on pyloroplasty Payr cited a number of Ru ian surgeons who have discussed this one a tion He emphasized that in articles on peptic ulcer of the jejunum the name of the surgeon who per formed the original gastro enterostomy should be gi en a patients with this condition are prone to chan e su geons and this information is necessary for a c rrect estimation of the incidence of peptic ulcer f the jejunum WINDER ADON (Z)

Duiglt L Benign Hype trophy of the Stomach nd Linitis I la tica 1 S g 19 7 1 txv 681

Diffuse induration or hypertrophy may be gen e all or c nfined to a portion of the stomach When it general it may be accompanied by a marked I minution in the size of the organ and is known as leather bottle stomach or limits plastica. This condit on a seen mo t often in the pyloric portion of the stomach where ca cinoma is so frequently i und The symptoms corre pond to those of car in ma or i durated pept c ulcer The roentgeno gr m upon whi h we have come to depend so largely

the li gnosi of gastric di eases doe not eem abl t differents t the variou pathological changes which may be not in the condition eport t ca es i ummanzes as follows t I mely the tem linitis plastica

apple it all the co dit on 1 hypertrophs and in lu at on of the st mach which were not obviou ly nalgat To las it pplied to a p obabl mal grant

g up I cases with a dennite me ropathology the inte p etati n of which is in d pute. It sep rates e of e i lent mal grancy from those that learl ben gn

3 The benign group can be subdivided into hypertroph c pylone ste osis fibromat s circhosis

h n nilammat n syphilis etc a The asses rep ried in this article are probably exampl f chron'c inflammation

s All f the e benign conditions may resemble limit spl t as tone nother to such a degree that ca ful mi oscopical examination is necessary to

aff r ntiate them

6 When the lesson 1 confined to the pyloric half of the stomach the \ ray picture closely resembles that of carcinoma of the pylorus and operation is likely to be undertaken on the basis of that diag

7 In this condition it is impossible to tell at the time of operation whether the proces is benign or malignant

8 Under such circumstances partial gastrectomy with a I oly a anastomosis 1 the operation of choice MORRIS II KAHN M D

Phlegmonous Gastritis Gerster J C A 5 4 9 lxxx 668

Phlegmonous gastriti is a rare infection of the stomach wall characterized by seropurulent or fibrinopurulent inflammation localized chiefly in the submuce a but more or less involving other layers. It may occur as a phlegmon an abscess or a combination of both The phlegmon may he diffuse or circumscribed Streptococci are the organisms most frequently found (70 per cent of the cases)

The condition has a sudden onset with profound prostration high fever chills intense epi gastric pain and tenderness repeated severe comit ing more or less local rigility absence of pain when the patient sits up and a high white blood cell count It is usually mi taken for acute perforated gastric ulter acute pancreatiti or acute chole c stitis

Ger ter reports five cale histories vith autopsy findings and draws the following conclusions t I hlegmonous gastritis 1 a very rare condi

tion the varieties and pathogenesis of which are becoming more clearly recognized as the material accumulates

2 It may be assumed that there are (a) mild cases in which recovery may occur before the nature of the condition is recognized (b) fulminant types ending in death ithin a few hours (c) acute cases running their course in two or three weeks usually with a fatal outcome but occasionally undergoing spontaneous recovery with a more or less protracted conval cence and (d) subacute chronic form which may simulate neoplasms the less extensive types of which may lead to cicatricial changes in the gistric wall depending on their extent and location

3 Cures reported i llowing palliative surgery such as local drainage or gastro-enterestomy may properly be considered pontaneous recoveries 4 R section is the operation of choice when

leasible It has a higher mortality in recent cases than in tho e in which the condition has been present for some time l'ostoperative phlegmonous gastritis is prob

ably of more frequent occurrence than is realized Hence it is advisable to make microscopical exam ination of tissues from the region of anastomoses in all cases coming to autopsy

MORRIS H KARN MD

gastric paresis emptying of the stomach may be rendere i impossible by the negative pressure in the engastrium

Lesters (Keijes) stated that he had performed poloroplasty in the manner recommended by Payr as early as 1920. His article describing it appeared in the Process medical three months before the

publication of the article by Payr

HESSE (Lemngrad) reported several of his cases of carcinoma of the stomach. In the first two cases total resection of the stomach was done. Both of the patients del one from operative shock and the other-in whom the cesopha us vas unite I to the luodenum-of pneumonia Autopsy in the latter case di closed no fault in the operative field Of five cases in which subtotal resection of the stomach was done to were fatal Of three patients subjected to re ection of the stomach and trans verse colon one died of peritonitis As the ends of the colon could not be united they were closed and an anastom sis vas made between the as en ling colon and the summer! flexure In two cases in thich the stomach and a part of the pancreas were resecte I there v as one death. In four cases in which the stomach and a part of the liver vere resected there was no mortal ty Hesse is of the opinion that the technique has now been perfected to such a degree that the limits of operability may be widened

BRALETA (Moscow). cla med that the basis of peptic udeer of the ejunum is the method of operation gastro enterostomy. Since 19 o he has been performing the submucous piloroplats in cases of ulcer at a distance from the pilorus and resection for bleeding ulcers of the polorus sugge ting catner. He has reserved gastro enterostomy for cases of pulo ic ulcer an which rese tinn i rendered impossible 1 when patients each ness. B arece has been performing the submucous pilo oplats in some 1920.

and in that year h work was cited by Payr Gregor (Leningrad) stated that in his opinion gastric ulcer is a disease of constitutional nature which a associate I with d stu bances of the internal secretions whereby sp sms especially of the sphincteric muscles are b ught about The troph c nerves are also inju ed If a portion of the stomach wall rema as after operation the tendence to a d recurrence persists Therefore either a total gastric resection must be done or an operation which is merely palluative must be as simple and safe as Grekov has recently been performing pyloroplasty instead of gastro enterostom, with increasing frequency From the point of v n of the technique he b heves the division and resection of a part of the sphincter is desi able. The reflex relation between the ileocarcal valve and the pylorus may be regarded as a chinically established fact and has recently been proved by the experimental studies of Bekrenes in levit's clinic Grekov has not given up gastro entero t my entirely he still pe forms t often an l sometimes in combination with light on of the pylorus The tendency to do a

circular resection of gastric ulcers to pre ent the occurrence of peptic ulcer of the jejunum he regards as objectionable as the mortality of this operation is greater than that of the oper tive treatment of

peptic ulcer of the jejunum

STEREVILLAR (IA am.) emphasized that the limits of operative proced res on the stomach must be withened especially in cases of malg ancy. He reported three cuses of resection of the stomach and transcress colon one case of resection of the stomach and ranscress colon one case of resection of the stome and near the colon of the stome case of resection of the anatomosis of a posterior gastro entere tomy with closure of the stomach and infestine and the immediate performance of an anterior gastro enter output of the the colon of the co

Soucco. (Leningrad) stated that in his op usin the pyloroplasty of Payr cannot g; e permanent results as the electrical stenosis resulting from the longitudinal stuture of the services will increase. He believes that if the sphiniters should not re u ite a letter that if the sphiniters should not re u ite a format on. He prior is the Figure Middle french in format on. He pipers a the Figure Middle french and plasty and believes that in cases of ulcer at a disatince from the pipers are seen with the ulcer six drome but vithout ulcer and cases of duodenal ulcer it is the method of choice. In cases of callous ulcer it is the method of choice. In cases of callous tup is used to the contract of the lumber of the pil us he pr forms gas states the lumber of the to the method of size?

EBERIE (Bologoje) claimed that pylo oplasty is indicated in every form of pylorospasm. Its great advantage is that it requires little time. In c. es of marked gastroptosis pyloroplasty is cont a

and c ted

Petron (Lenu grad) basing his remarks on autopsy material emph seed the great value of gastro-enterost my a dataf d that the performance of resect on in every ca e of gastro ule ris win g Resection he believes should be reserved for care at possible healing and as early continuous the command functioning of the anistomous he employs the one row suture method of Ber The Henceke Mikutez puloro plasty in its own and form he regards a unswitching of the control of the co

erally appropriate procedue

SATIANT (de lingrad) repo ted th 1 n Gi g 1 vs
cl inc vicious circle a obse ved in ñe f 3 so
cl sinc vicious circle a obse ved in ñe f 3 so
lit appeared between the eighth a d tenhs d s
after the operation of the observation of the

SOLOLOV (L mingrad) tated that the f eq e cv of gastr c ulcer depend pon the natu e of the food and that therefore a careful dietetic treatm t cusses the ultimate effe t of partial gastrectomy on

the physiology of the stomach

A trial of medical treatment is advocated for every case of duodenal ulcer which has not pro gressed to perforation and is not associated with pyloric obstruction. Such treatment makes the patient a better surgical risk. In chronic gastric ulcer surgery is preferable the procedure of choice is excision of the ulcer with or without gastro enterostomy or partial gastrectomy

The importance of postoperative medical treat C O HEISTRAL M D

ment is emphasized

Cleland J B Carcinoma of the Stomach Gastric Ulcers and Duodenal Ulcers in 1 000 Consecu tive Autopsies at the Adelaide Hospital Med J A st al 1927 74

Of 1 000 autopsies carcinoma of the stomach was found in thirty six (3 6 per cent) Thirty of the sub jects were males whose average age was 57 5 years The youngest was 18 years of age and the olde t 75 years Six of the subjects were females with an average age of 57 2 years

In Australia carcinoma of the stomach is rare before the fortieth year of age and most common between the ages of 60 and 70 years The statistics of Stewart based on a series of 7 900 autopsies are

almost identical

In twelve (42 8 per cent) of the cases reviewed the site of origin of the lesion was the lesser curva ture in eleven (39 3 per cent) the pylorus usually the posterior aspect and in four (14 per cent) the cardiac end of the stomach These figures d fler from those of Stewa t pos ibly because of differences of classifi ation

In twenty six of the thirty s x cases secondary gr wths appeared elsewhere. In twelve nodules were present in the liver. In fifteen the adjacent glands we e in ol ed and in two the supraclavicu lar gland In seven cases there ere metastases to the peritoneum and omentum. In two the spleen was in olved in one the pleurs and in fou the lungs In two cases subcutaneous nodules were found

Seve al c ses presenting unusual features are reported In only a very few instances were there any indications that the malignant growth had supervened on a chronic ulce In only to us stances were there associated tuberculous lesions of moment The complications found at autopsy are enumerated In two bodies the malignant growth

s discovered accidentally Several of the bodies presented other less ns in no way related to the

malignant growth

Eighteen c ses of ulcer of the stomach are re viewed. The teen of the patients were males. In se eral cases the discovery of the ulcer was quite unexpected Healed or unhealed duodenal ulcers were found

in I per cent of the cases Nine of the eleven pa tients with duodenal ulcer were males The average age of both males and females was 56 42 years

C O HEIMDAL M D

Lengemann The Operati e Findings in Patients Pre lously Subjected to Gastro Enterostomy (Operat onsbefunde an Gastroenterost m erten) Z tralbl f Ch 1026 1

This report 1 based on the ca es of nineteen patients treated by gastro enterostomy who were subsequently obliged to undergo a second lapa rotomy In five cases the second operation was in dicated by disturbances of nutrition vith regurgita tion of bile in five by recurrence of the original ulcer and in nine by pepti ulcer

Cures following gastro enterostomy-with the exception of cases of pylone stenosis-are much more rare than is commonly believed. When the ulcer is situated at a distance from the pylorus gastro entero tomy is not to be recommended. The mortality lue to consequent peptic ulcer should be included in the mortality statistics of gastro enterostomy. In the von Eiselsberg clinic the mor tality of pepticulcer resection is 25 per cent Ca tro enterostomy is definitely contra indicate I in cases in a high neither a narrowing of the pylorus nor an nicer can be lound

In the discussion of this report Pers Leusney stated that in his opinion gastro enterestomy need not be entirely abandoned. He recommen led an antecolic posterior gastro-enterostomy with a long loop and without an anastomosis according to the

method of Braun This functions perfectly Schwarz reported that a systematic re examina tion of patients subjected to gastro enterostomy

very frequently reveals postoperative complaints and that while lanarotomy may show a cure of the original ulcer it just as frequently shows the per sistence or even progress of the lesion. In eight cases of postoperative vicious circle-in seven of which the condition followed an anterior gastro enterostomy and in one a posterior gastro enter ostomy -an anastomosis according to the method of Braun was performed with good results Schwarz reported a case in which a cancer with numerous peritoneal and glandular metastases developed at the site of an anterior gastro enterostomy performed seven years p eviously for an ulcer at the pylorus In this case improvement was obtained by anasto mosis according to the method of Braun Of 200 nationts treated by gastro enterostoms at the Rostock clinic and di charged as cured thirteen thed later of carcinoma of the stomach and seventeen developed peptic ulcers. In ten of the seventeen cases of peptic ulcer an anterior gastro enterostoms had been done and in seven a posterior gastro enterostomy Schwarz concludes from these find ings that gastro enterostomy is not only a super fluous but also a dangerous operation in ulcer of the stomach

OEHLECKER attributed the unfavorable results of gastro enterostomy partly to a faulty technique (too long a loop in posterior gastro enterostom)) He belie es that if resection is impossible in a case of ulcer a ga troduodenostomy with section of the pylorus is preferable to gastro enterostomy

Melchlor F Surgleal Tubercul sis of the Stom ach (/u k nt ler hruss sclen Vis ntuler kul e) M n a d Gr f b d M d Ch 1926 x 1x 205

In an article of filty pages. Metho or gives a review of the hierarce of surgical rulerrulous of the stomach and reputs a case; which were of erred in huertners schine during a case; which were of erred in huertners schine during a constraint of the patients treated in 10% of the patients were men and two a ere otherwise. Here for each of the were men and two a ere otherwise. Here for a cline were men and two a ere otherwise. Here for a cline culous. In one case an ere foration [lipit tompus performed land the patient due soon afterward.] One patient treated by gastro enteroid my it is not patient treated by gastro enteroid my it is particulated by the patients of pulmonars. Here rulous Off four patients treated by resection to duel on one first the operation one is still aline after three years and the other i still aline after ten years.

According to recent fin lings gastric tuberculos s is mo e of a rarrity than was I rmerly supposed Ceresia forms of gastric tuberculs is are n t sur gical viz involvement of the stomach in gen eralize I miliary tubercul us multiple ulcers of the gastric mucosa occurring in the terminal stages of pulmonary tuberculo is an I similar forms of gastne tuber ulosis Surgical tuberculo is of the stomach o curs as a mas ive circu nscribe I ti sue prol fera tion assoc ated with certain defin to clinical signs usually a nalnable steny tog pyl ric tumor. In some cases the tum or un lergues fibrous change. with the formation of a ci atrix. In a few it goes on to case tion and abscess I smallon Less Ire quently the circumscribed gastric tulerculous forms large deeply a enerrating ulcers with a marked fibrous reaction in the surrounling tissues which clinely resemble call our ulcers is a rule the ul ers are situated in the region of the piloru but the? may occur also on either the lesser or greater curvature

I alsologically gastice tuberculsists a manufestation of the thri starge of tuberculosis even though it may appear to be the primary conductor. If may keyedp from enogene o incoulation or may le blood or lymph borne. Tuberculosis of neighboring organ may affect the stomach secondarile either by rupturing into it or spreading by continuity. Simple pressure for in tuberculous glan is may lead to gastice symptoms e persully if the pressure occurs in the region of the pylorus.

The author mentions non specific grains tuber culsus and stries that he doubts the occurrent of such a con inton. He inscures also the relation of gratine tuberculosis to initis plast ca filrous piloric stenosis and polypoil a len ma

Surgeal tubereal system of the stomach occurs as a rule in a lutts but have been louri also in the hidden as a lutter of the stomach of the s

cancer of the stomach Hourgla's stomach due to tubercul 1 is very rare Diarrhea occurs fre quenth lut severe blee hing is unusual kupture sel lom occurs into either the free peritoneal cavity or into neighboring organs

The descending of the second of the second of the feet of the feet

The presence of pulmonary tuberculos s is in it self not a contra indication to operative treatment on the contrary the unfavorable influence that the gastric condition may have upon the pulmonary condition may constitute an urgent in heation for surgery provided the process in the lungs has not progressed too far Most of the patients treated by gastro enterostomy succumbed after a short time to progress of the pulmonary tuberculos s r the spread of the process throughout the pentoneal With many other surgeons Melchior regar is resection as the method of choice even th ugh because of the nature of the process and the generally poor prognosis of vi eral tuber culosis the results cann t al ava be good. Bes des local operative measures the treatment must in clude g neral treatment for tuber ulos s and treat ment of any other tuberculous foci that may be found LA 15 (Z)

Willis A. M. A. Discu fon f the Treatment of Peptic Ulcer of the Stom ch and Duod num I for al J. M. d. S. S. g. g. 7, 1, 94

The author discus es the methods used in the diagnosis of ulcers of the stomach and duodenum the frequency of the ele as and their t eatment The treatment may be medical r surge al Surgical treatment may be rad cal o conservative Sherrin and Ballour regard gastro enterost my as the opera tion of choice for chroni d oden I ulcer Balfour eports a cu e in 85 per cent a mo tal ty of 2 per cent and the development of gastr jejunal ulce in 3 5 per cent of 1 000 cases The statist cs of Hag gard and Flo d agree essentially ath those of Sherrin and Balf ur On the other hand Schmieden reports failure in 50 per cent of his case Clairmont a cure in 50 per ent Sauerbruch good results in 36 per cent Lewis hn a cure in less than 50 per cent and Forsyth a relapse in 36 3 per cent This marked difference is probably to be explained by differences in the definition of cure rather than d fference in su gical skill

I actically all surge us who are d ssatisfiel with gastro ente ostomy favor a more radical measure such as subtotal gastrectomy. The auth r ds ough Other theories attribute them to crushing traums traction local zed cealness of the watersass in partial management of the control of the control of the control of the cealing and forcible fredundancy of the well resultant partial control of the control of

In a large percentage of ca es requiring surgery the discriticula are associated with duodenil ulcer and situated in the first portion of the duodenim No t of those not a sociated with ulcer are of the pervaterian type and apt to project into the pan creas a high repliers them difficult to detect even

at operation

Yray and autopsy reports indicate that diverticula of the duodenum are common but rarely produce symptoms unless they are influed or cannot empty readily Yray examination is the

only reliable means of diagnosis

In the fer case in which sample discriticula have been noted to cause a simptoms the climaral picture has suggested ulcer or cholesystin. In one case with acute inflammation a diagnosis of acute appendict was made. The only a striptom of value is local pain produced b increase in intra abdominal pressure by posture muscular contraction or durent pressure.

In smyle cases athout inflammatory involvement sugers i rarely necessary but in account of well with the properties of verticulating a long in a wally indicated. In cases-complicated by adjacent inflammatons chaired such as ulcre or holecystii, these othe conditions must be taken care of and the diverticulum even of the or or not according to whether it seems to be playing a part in the production of the symptom. In our case is in this inflammation and complications which are in iterated by su great excession and the procedures in licited for adjacent pythological changes the symptom. In may be be netlyen.

BURTO CLARE JR VI D

Bort lottl C Duod nojejunostomy and Mobili zation of the Duodenum f om tie Left by Clarm nt Method (La du dod mut mi l m bl dld d d to eco d Cl m t) 4 / 1 / 1 / 2 97 1 4 9

The t chn que of the duo len I mobili ati n de cribed by Bo tol tt is as foll s

The tan ese ion is pulled upward and the posmal loop of the Jerunum to the left. The stretches the luodenojequial and ludednomescoche tolds. The duodenojequial fild is incised near its att. Intent to the intest ne. The duodenomesco he lodd the ince dand the not ion car red down art to just ab ver the luodenum. This foll of pertuneum can then be pushed to one side so that the ascending p t of the dio fenum can be fe d iom the etropent mell connectie tissue with musted ponge and pushed upward. In this in more the sorts and infe ior vena cays.

are pose i The me enter c arte y can be seen

through the panetal pentoneum. The line of incusion in the latter should lie to the right of the vessel. When this incusion is made the ascending part of the duodenum can be mobilized to the root of the mesentery so that the posterior vall of the inferior horizontal tract can be seen and all of the inferior duodenal fleture from behind. The tract of incusion the individual fleture for the first proper and corresponds to the fluodenoispinal fleture. By means of the mobilization a root for the first proper and corresponds to the fluodenoispinal fleture. By means of the mobilization a root and the accomposition of the control of th

The chief indications for the mobilization are (1) secondary resection for peptic ulcer after gastro enterostomy (2) secondary operations for vicious

circle or after gastro enterostomy

In pentic ulcer, the shortness of the afferent loop of the gastro enterostomy and the surrounding in flammatory changes make terminolateral union of the stump of the duodenum with a loop of the sempum so difficult that the anastomosis is not secure enou h By mobilizing the ascending part of the duodenum by Clairmont's method much more radical resection can be performed into healthy tissue and a laterolateral enterostomy can be effected In cases in a buch Brann's entero anasto mosis has been performed it is difficult, at a second operation to establish a new communication be ty een the afferent and efferent loops. Moreover as the size of the stomach is decreased considerably after the re ection the remaining loop of sesunum may be too short to form a ne v gastro enterostomy By mobilizing the duodenum i om the left hos ever this loop can be prolonged and the new gastro enterostomy can be effected without tension to a higher tract of intestine which is important in the late results as this high loop of intestine has a greater tolerance for the act I gastric fuice

In vicious tride after posterior terroolic gastion ente ostomy Brains enterio anistomo is cannot be pe formed because the affectat loop is too short herefore it a second operation is necessary, it must be an anterior antecolic gastro enterostomy or a ron Euchster ejeunostomy. In ca so with marked with the second operation of the control of the contr

More than twenty cases treated by the operation described are reported Audres (Mores MD

Sweet and Robe tson Congenital At esia of the Jejunum Operation Recovery \ Z of nd

The authors cite the stud es of Davis and Pointer who collected 392 cases of congenital occlusion of the intestines between the pilorus and the rectum One hundred and mnet; four were cases of single atres a in the duodenum or jejunum and sixty.

I FINAN reporte I that in all cases of ulcer he has found a more r less severe gastritis. This is the basic con lition the ul er being merely a by p o luct In a ca e of flori I gastritis the result of a gastro enterestomy excatrix is an ulcer. Unless the entire portion of the stomach affected with Lastritis is remove I the ulcer will recur even I howing a gas tric resection According to Anschuetz the results of pastro enter stomy in cases of ulcer at a dis tince from the pilorus are tert poor In the ab ence of positive fa bags the effect f the opera ti n is unreliable

Scholefield B C Acute Intestinal Obstruction Fxperim ntal Evidence of the Absorption of a Tista from Obstructed Binel with a Celtical R lew of Varl us Method of Treatment C vs Hosp R p Lond 1927 1 1 160

Death in acute inte tinal of truction has been attributed to (1) layasi n of the body by bacteria fro t the damag I bowel (2) refl x nervous acti n the obstructed bowel being the source of impulses which listuil the general sy tem and (1) chemical por one absorbed from the bowel. Vost investigators now seem to agree that the symptoms of ob true

tion are due to the last cause

In a series of experiments Scholefeld attempted to the brain evilence of the presence of a toric ubstance in the portall lood of animals with of tructe n His metho I con I ted in injecting mice intraparitone ally with a real thoo lor arum obtain I form does with an artificial of structs not the 1 1 1 Systemic bloo for blood from normal does was use Is a con trol Systemicht odobtaine lie manimals with eb struction was found to be without effect. This sug Lests that the by r takes som part in the r mo alof the town from the circulation

The I cts favoring the ab or tion of the toxic product into the portal enculition seem to be time increased intra intestinal pressure in alve ment of the upper bowel and the pre ence of bac

teria especially bacillus welchi

The experimental findin a suggest that thera peutic measures should be dir cled along the ollowing line (1) early and a lequite rely of following hine ntra intestinal pressure (2) resution when protected le of any i ngth of borel a nous! Ismage! (a) drainage of the jejunum to prevent sta a of its centents (4) the administration of sal ne solution in large amounts to combat tos mis and (s) th use of anti gas sangrene scrum a hich pos ibh has a specific immuniting action in cases of obstruction ION'S IL CHEEK MID

Romeo M Grafts of Fixed Apon urosis in Loss of Substance of the Wall of the Intestine (Innest i apo erifi t su penit di sosta dell prite intest ale) in id ch 97 1 64 97 7 64

For grafts of fred tissue the his ne are first treate I with various f raines which can be a hed out really before the graft is use! The author gives protocol of ten experiments performed on dogs

He concludes that for temporary orclusion of a I reach in the wall of the small intestine fixed fascia is safer and more effective than a flap of fresh fascia as it causes le s reaction and inflammation in the host A redunculated flap of the great r omentum placed over the fascia graft will protect it if some of the sutures fail to hold

Most of the grafted aponeurosis is el minated through the intestine in a peno I ranging from ten to filtren lavs but some parts of it remain en losed between the tun s of the all of the i testine and in the course of t me become penetrated by your connective to sue cells which slowly revivily the stroms The presence of these segments of fixed aponeuro is facilitates the process of reg nerat on of the wall of the intestine furni him an inert woof for the young cells and assumm greater solidity of the wall of the grafted part of the intestine The layers of the intestinal wall the fixed aponeurosis and the pedunculated flap of omentum all take part in the reconstruction branning about a gradual an i progressive ne formation of young conne tive to sue which fills the lefe t

The regeneration of the inte tinal mucous mem brane begins about the twentieth day and advances from the periphers I ward the center in eights days the muc saits relegrated to the eltent of being formed by a single I ver of cells but there ar no glands. In the author's experiments the muscle tis ue f the muscul ns mucosæ and the circular or I ngitu! al tunics of the intestine did pot regenerate. After one hundred ten days the grafted tract of intestine sho ed a moderat de ree of stepos but not enough to interfere ith the good results of the operation

AUDREY C MOR M D

Vespign ni A Malform, tion of the Upper Flex u e of the Duod num In Cholerystitis (La n a dim occh uper ore did de leciti) teh tuldh 9 x 31 de(m n

A great majority of the cases of perid denit s are caused by duodenal ulcer o chole ystitis but h le peri luodenitis from ther causes gene ally i es n t aff of the upper fle ure the periduodenit s It m chole vatiti affects the upper flexure very frequently this leng the site of predilect on for the changes caused by the condit n

In pendu denitis from cholecyst us the upper flexure is p lied upward and deviated greatly to the mahl is very bluse and is replaced by a large regular curve made up of the fir t and second p r tu s of th duo fenum

The ticle in lu les several roentgenogram

AL IY G MORGAN M D Herbst W P Di erticula of the Duode um

of 3f d Q 7 364 31 This article is ba ed on a study of 361 cases from

the literature including 182 autopsy reports 136 \ ray report and 20 surgical cases. According to one theory these diverticula are of congenital

administration of paraffin oil twice a day a large soapsuds enema once a week and occasional doses of bismuth. Operative treatment is indicated only in severe cases. In severe cases with obstruction colostomy may be necessary.

Sprices and Marker report that in the course of observation and treatment of 208 cases of multiple discriticula of the large bowel they were able to photograph the affected parts and to observe the pogres of the disease over a period of several years.

Diverticulous of the large bowel occurred in oper cent of 1 000 CM. The large bowel occurred in oper cent of 1000 CM. The twice as frequent in men in small diverticula rarely cause a symptoms. In 6 cases the pelici color was involved in 120 the descending color in seventy nine the seconding color in thriv three the transverse color in thrity three the call of the case of the

The authors describe the stages of disentuclous so on the predictricular stage through the stage of mixture to the fully decing and reen (generative to the fully decing and reen (generative to the stage of the stage of the stage of the stage of the stage brought into view with a light to seek up the stage brought into view with the stage of the stage of

The ctology of the distance is not yet understood Septic fon elsewhere in the bod, are frequently associated with the condition. The evidence points to an inflammatory change in the early stages. That the small herine are pone to occur where the blood vessel penel atte the bod will have been called as evidence that they are passive extru ions from the onset. As a rule the patient gives a history of constipation. It is the delay and stagnation in the nounces which is harmful.

In the predi exticular stage there are no symptoms. Also in cases of established dusertuals there may be no symptoms if there is no diverticulities. Howe er some patients complain of flatulence pain istention and diarrhora alternating with constitution. The symptoms of rupture of the posech into the perticulum are those of an acute local or general pertonuits.

The chucal features of discribedules are those of a low form of inflammat on in the large bonel usually in the left lower abdomen spreading to ne globring six uctue as Abdominal pain around or about the umbilicus constipation or diarrhea fre quest meturition and the occasional presence of a sau age shaped tumo in the left like fossa leading to list under the state of the state of

The roentgenological features of diverticulit s a e definite. With a harium meal or enema typical rounded oxal or crescente shadows of the harium in the diverticula will usually be recognized. The chracte istic features however are the spike or palisade hike projections of barium shadows from

the lumen of the bowel the walls of which are thickened by inflammation and fixed Serial films when superimposed show no variation in the out line of the shadows.

When early diverticulities is recognized the prognosi for reasonably good health and for life is usually favorable The graver complications occur in late or undiagnosed cases Medical treatment consists in keeping the alimentary canal and especially the colon as healthy and clean as possible simple regular diet of fruit and vegetables is advan tageous Paraffin oil daily and attention to bowel movements are essential The colon is washed out with a saline enema daily Enemas of from 2 to 6 oz of warm olive oil are beneficial. The nationt is warned of the danger of obstruction When obstruc tion occurs colostomy is often pecessary quently the swelling disappears completely Mounthan reports a case in which the entire turror disappeared the lumen of the bowel was restored and the colostomy closed JOHN W NIZEM M D

Lockhart Nummery J P The Treatment of Obstructive Lesions of the Colon B 1 11 J

At the present time operation can be performed in one stage in most cases of chroin obstruction of the colon. The important early symptom of uch obstruction is irregular bowl action. Y are examinations should be repeated to avoid accidental appearances and belladona given to chiminate spaces. Signosido copy tells nothing of the bowled my should be advised exace exploratory larantic more should be advised exace exploratory larantic more should be advised exace exploratory larantic my should be advised exace exploratory.

The most frequent cause of partial obstruction is cancer Discribultis may have the same effect and may be difficult to differentiate Signs of in fimmation and absence of bleeding will usually assaid the diagnosis but it must be remembered that enner and discribultism are often associated enner and discribultism are often associated are difficult to diagnose. Hyperplastic tubered and chronic volculus are rare exuses of obstruction

The preparation of the patient should include a week in bed cathars; and the free administration of fluids. For anaesthesia the author favors twhich is deep or infrience some combined with spinal or a newthesia. He uses a dia onal incision for reparation and the state of the st

Both the excal angle and the transverse colon are usually easy to resect In the former the author implants the small gut into the ide of the transverse colon. When the bowel must be thor seven were cases of multiple atresa. In 30 per cent of the latter there were from two to nine occlus ons

of the jejunum or upper ileum

The first attempt at surgical treatment was made by Bland Sutton Three ca es in which a cure nas obtained by operation have been reported. The operative procedures were (1) end to end ana tomo is (2) antenor ileoduodenostomy and (3) posterior gastic-neiterostomy

Sneet and Robertson report a case in which the occlusion was in the third portion of the duol enum an I an anterior gastro enterostomy was done on the high day and the gastro of the control of the many control of the manufacture of the control of the duol of the gastro of the duol of the duol of the duol of the gastro of the duol of the duo

transfusion was necessity but after the transfusion a nooi ritansfusion was necessity but after the transfusion the con little limited transfusion in the transfusion in the transfusion in the transfusion to the transfusion transfusion and the transfusion tra

the jejunum the prognosis is favorable

Moynihan Sir B Di erticula of the Alimentary Ganal Law 1 1027 (tan) 10/1 Spriggs E I and Marze O A Multiple Di er ticula of the Colon La c/ 1927 (21 067

Moyamay defines a liverticulum as a protrusion of the mucous membrane of the bowel with or without the other coats outside the lumen of the Imbroonic di erticula are associated intestine with the development of the appendix liver pun creas and thyroid glan! A diverticulum arising as a bud from the wall of the bowel and containing all of the coats is said to be congenital in origin and true in structure \ diverticulum occurring after devel pment is complete and d e to some abnormal process is said to be acquired in origin and false in structure An acquired diverticulum caused by protrusion outwar I of the mucosa from the lumen of the bowel due to increased pressure is a puls on diverticulum \ diverticulum forme l by adhesions to inflamed lymph glands etc is known as a traction diverticulum

Directicula of the phorynz There are three recog

nized forms of phary ngeal diverticula

accumulation of mucus. This results from a lack of fusion between the brachial clefts

3 A form often erroneously called erophageal which usually arrest from the back of the phrtynx in the midline and extends foward it e left sude. It may form a considerable s c The point of origin of the sace he between the middle oblique fibers and the lower circular fibers of the interior constrictor now called the errophrtyngeus.

3 A lateral form of diverticulum arising from the pharynx at the hiatus or weakest point where the recurrent laryngeal nerve and inferior thyroid vessels come through

If the sac of the diverticulum is large and retains food it should be removed by operation. The author does not advocate the two-stage operation employed in England. For many days after the operation he feeds the patient through a Jutte tube passed through the nose.

Destruib of the at mach. Discrituals of the atomach are very tare. They occur hear the pilons and the exophageal ordice. At rould-some power heart the pilons may be treated by as treetomy. A pouch near the cardia of large size and causing symptoms may be treated by large draughts of water. The patient is then placed in that position which enables the dispersion to drain out. The

contents are thus washed away into the stomach. De t cisal of the dunderum in a consecutive series of 6 817 examinations after a barnum meal case found dunderall divertucia in regby fi e case (it a per cent). In about half of the cases the transfer of the condition may be conjusted the dunderum the condition may be conjusted the dunderum three conditions may be conjusted the diagnoss of Springs a series of eighteen cases threten were successfully treated medically. The author has accreted one pout 315 in long from the outer side of the second part of the du lenum Stude removed of the second part of the du lenum Stude removed a pout of the dunderum are constaining may be appeared to the dunderum and constaining may be plantable tissue in its wall. Diverticula of the leginum and alleum occur with considerable fre

quency and are often mult ple
Directiculs of the logge t lest e Diverticuls of
the colon are common. They ccur in all parts of
the colon but most commonly in the appendi
They are often diag osed as left sided appen
diction. See the state of the state o

dietts vesco intestitual fistule or probable mahajamat tumor of the colon Springs reports or on the cricula of the large bowel in a coo consecutive exam asinos. The cause is a jet lang of the nies timal wall due to long-continued pressure within the limen. The gut jedds at its weak point the mesen teric border. The following con hilons may develop in diretticula di criticulatis scutt or subsocute in flammation due to infection retus ed in the six perdia-tricul it of the leading to instessite lobatruction local perit mits from perfo ation of the six and carcinoma of the colon from infection and long

continued chronic tritation

The liagnosis of this condition is made sually by
the roentgen logist. In the great majority of eases
medical treatment will check the symptoms. This
should include a diet leaving little residue the

per cent and the acute cases with perforation and its sequelse 18 per cent. The total mortality was 28 per cent which low Fromme stotal mortality was 69 per cent. Adam 3, 72 per cent. Adams 3, 73 per cent. Adams 6, 9 per cent. Engels 6 per cent. Hofimann 5, 9 per cent. Sognored 5, 5 per cent. Hofimann 5, 9 per cent. Sognored 5, 9 per cent. Temper 6, 10 per cent. Temper 6, 10 per 6, 10 pe

In 1764 acute case including those with petitonitis which were operated upon the mortality was 4, 1 per early allership was 4, 1 per early allership was 4, 1 per early allership was 5, 1 per cent. When as 4 per cent when as 6, 2 per cent. Charn as 6 per cent. Stuchele as 6, 3 per cent. Fullerst and Augusti as 6,8 per cent. Hoffmann as 6,8 per cent. Suermondt as 7,8 per cent and the Suss statistics for 1012.

as 1 8 per cent

Of the 2.531 patients 1.385 were females. The greater proportion of females is explained by regreater proportion of temales is explained by feet that women more often seek operative help in the chrome stage (2.1) Of the patients seen in the chrome stage (2.1) Of the patients seen in the acute stage 9,12 were men and 82,1 were women Thry e en of the sexently three deaths were those of females and that; sax were those of males. The mortality was therefore o 5 per cent higher among the females in contrast to all other statist cs which show a higher mortality among the men.

Table 2 give the causes of death in the different types of appendicties. The operation done in the cold stage after abscess or peritorium was usually performed from four to six months after the subsidence of the attach. In 826 cases so operated

upon there were no deaths

The cases of obstructive and gangrenous appendictus were very numerous. They are included in these statists because the crudate was still stenle or at mot 1 ml very slightly infected. In the stat ites of most surgeons such cases with early e udation are reckoned as cases of peritomits. In the series reviewed 1 290 such cases were operated up n. p.

Therefore appendictus simples phigramonas are roticans constituted almost op per cent of the entire material. In this group there were ten deaths a mortality of o 8 per cent of the control of the contr

The mortality following perforation was 13 per ent Steichele spercentage was 12 Sigmund's 1 Sonnenburg 5 5 and Doederlein's 12 to 17

There were 165 cases of appendiceal abscess Thirteen (78 per cent) we e faital In five of the fatal cases the cause of death was diffuse pentonitis and in two hepatic and subphrenic abscess Secondary cause were embolism pneumonia and adhes on ileus in one case each and heart failure.

after the abdominal wound had nearly healed in

three cases The mortality percentages of other conservative surgeons are as follows Chiari 156 ner cent Fromme 13 per cent Hoernike 4 per cent Steichele 20 per cent and Suermondt o per cent Those of radical surgeons are Noetzel 12 1 ner cent Wolff to per cent Denes 68 per cent son Brunn st per cent Eichoff a 6 per cent and Temoin a s per cent Among surgeons v ho take a middle stand is Koerte who operates radically up to the fifth day and after that inci es Koerte's mortal ty is 5 2 per cent The surgeons who habitu Haffmann 12 per cent Engel 10 7 per cent Riedinger to 2 per cent Sigmund 51 per cent Mams 46 to 42 per cent Marsch 43 per cent and Greet 16 per cent

Averaging the thirty sets of statistics known to the author the mortality of the radical treatment of abscess is found to be 7 per cent and that of moderate or con ervative treatment 7 r per cent It is therefore apparent that the same results are

obtained by very different methods

The belief of Rehn and his pupil that infection of the personneum in oit to be feared after agree of the terror of the personneum in the feared after agree dectom, with the separation of all adhesions and thorough lavage was not confirmed. It must be admitted bowever that extension of the infection occurs somewhat more frequently, following more incision and drainage. A careful study of the causes of death shows that in cases of abscess the cause of death shows that in cases of abscess the terror of the single complications can appear in exactly the same was whether operation is performed or not local extension metastasis and flues threaten in the one ca e as well as in the other.

The total number of abscesses of the pouch of Douglas which were operated upon was forty two There were nine cases of evacuation of the primary abscess without laparotomy with two deaths and the ty one secondary Douglas abscesses with one

In cases of peritonitis with complete perforation but as yet no adhesions encapsulated absces or extensive peritoneal suppuration but with considerable injection of the intestinal serosa and in the sleocæcal region and the pouch of Douglas a free turbid seropurulent ichorous exudate con taining florcules of fibrin appendectomy 1 as done the exudate swabbed out and dramage established The abdominal cavity was never washed out. The mortality was 46 per cent-ten deaths From this it appears that the prognosis of beginning pentonitis is quite favorable. The percentage of cure is almost half again as high as that in the older closed abscesses The explanation appears to be that the virulent infection is robbed of its pro gressive character by prompt surgical treatment Moreover the source of infection is removed with the excision of the gangrenous appendix and the operation is performed before the patient has be come weakened

on his free! the diagonal mention is of value in re ecting the plenic an 1

In the upper pel le est in resection le not liff cult

In the liver | rti n there is not en ugh boy el below the less in for a proper re ects in and such a resects n w ulf interfere with the I loo ! supply of the r ctum One alternative const ts in drast g the cut en ! of the colon into the rectum !) a tube an I fixing it there a ith statch s. This is d agerous because it ma interfere with the rectal limit supt is The oth ratternative is complete abdomi non merl re ection

The mortality f col ctomy is about 16 per cent The results are good so far as immediate rik and restoration if function are concerned an I when the operation ; performed for male nancy it gives the I t te ults of all cancer operations as the pest operative ten lency towar I recurrence of the condition is beht BERT & CLIRK IR MID

Fedmann J F and Clark H F Tumors of the

Forty e ght cases of carcal tumor were studed by It Imann on I Clark Carcinoma was found in thirty seven tubercul six in even chronic inflam mation in two and lympho arcoma in one. In one the natur of th tum r was nit letermine !

Other tumors occa nally devel ping in the excom are es is gummata I pomats tub r ul mats capillamata of le teatomata leiomyomata and actin mycott need sms

Three of the seven cross of tubercul's the hyperplastic type with ut a femonstrall pri mars from In the furth there was int hement of the ri ht lung and the ear I growth was con si here I to be secon lary In the three others the tumor as a tule revious

In all of the cases of tubercul us tum r the I ne luck resects a frem val of from so to 12 in of the slew : the entire carrier the aven hing col n and from one third to on half of the transverse of n f llow I la ana tom us of the sleum to the transverse c lin end to end) was performed and re sulted in a amptomatic cure in three cases of tuberculoma unly an appen lectomy t as line

The cocum t pre li pose I to mal gnant legeneration because of its physiol at all and anatomical relation his I egional glan lular in ta tas s were found in 25 per cent of the cases reported and in valvement of the il ocarcat valve in 48 per cent the mo t comm a sign and symptoms were gain a los of seight a mass and market anam a Poentgen ex mination was the mot accurate a !

in the lag to 1 For mal gnancy also the live int operation was the tr atment of choic being pe forme I in thent sight of the thirty sen er es of carein ma

mortality wa 214 per cent He auth rs fraw th I ll wing conclusion

f (ares oma is the most common creal tumor requiring surge I intervention I smplo 1 coma 1 the most highly maligna t tumor

2 Caral carcinomata are slow gr wing and only moderately malignant Secondary infection invades the tumor early and is the ch ef cause of the pro I un I cachexia in these cases

3 In carcinoma of the excum distant metastases are tate

4 Secon lars intestinal growths are not u com mon and should al ays be sought Obstruction caused by a malignant tumor may simulate chronic appen heitis JOH J MALON Y M D

Schaer W Causes of Death in Appendicitis (L ber Todes reach n bei Appe detti) Bir s il Ci 19 6 CX X 1 3 0

Il is report is base I on a 501 cases of appendicitis operated upon in the period from 10 8 t 1924 Of 1 765 were operate I upon in the scute stage the including diffuse perstonit's with sevents three leaths a mortality of 4 2 per cent and 826 were operat I upon in the chronic or quiescent stage with no leaths. In 877 cases ope ate I upon with fort) eight hours after the onset of the cond tion there were eighteen deaths a mortal ty of a per cent whereas in 834 which were operated upon in the thirl lay or later there were filts five deaths a mort lits of 6 s per cent

With regard to the in heations for operation the follo ing rule was applied foute append citis should be recognized as early as possible and or erate t ur n without il la unless pontaneous tetr g es ion of the inflammation s h tincti e i lent and unl . as in the ca es of certa n elde ly person the operat is would be associated a th too great n 1

Spontaneous retrogres on of an abscess is n t awaye ! In agreement with the Enderlen s hool importance is pla e I on a sh t pararectal neisi n If the exudate is to bit a rubber d ain is pla el in the wound and if it is purplent both ga ze a d a frain are inserted Effusion 1 t the rou h of Douglas requi es a secont de n ert nin g down ward from the angle of the wound I hifuse pen tonit an opening is mat on both ides In e v rett al cases only one fains nert d ne hiside towar I the flank an I to and the po ch of D ugla un ler local anxisthesia and the appendix sought for When the general condition le s un (avorable the ppe it a rem ed If the icu late a condition are good the appenle t my 1 I llo el by leain ge of the c I-de sy t a d the vaging r re tum n I the abdomen is th reachly wa hed out w thout eve tr tion of the ntesti e

In the afte treatment the p t at is k pt a the sitting position to f od is given Three I te s f salt solute n are a lmi i tere I sul cutane ush each day After the the i day peri tal is timulated I ava e of the perit neal a its 1 of gr at lue i fresh perforati n p it nitis lut 1 the pre erce of Asom tr pa al is very h zarl us
Ac or ling to Table i the hronic a es co:

stituted abo t 3 per ent I the total rumbe (501) the a ute ases thout pe forati n 50 perforated appendicitis 13 44 DPI cent and that of heginning and diffuse personitis 16 a per cent

Un to the thirtieth year the primary causes of death far exceeded the secondary causes Later death far exceeded the secondary causes. Later the ratio was reversed It appears that the danger from pneumonia is as great for patient under so years of age as for those over 50 years old. Embolism mas most frequent between the thritieth and fif tieth years The fact that the processes of annen dicitis is bes 1 the y ars in which the condition is mort free cut is evidence of the importance of the per eral res stance of the organism as a whole during HATTEL V (Z) there years

Paschond II Before Operation for Appendicatis in the Chilescent State-a Serious Typical Le sion of Appendiceal Origin (A a t lonérati n dappe d te à l' 1 -u e grav le son typ que dong e appe d'eul e) Rre méd de la 5 35

0 7 1

Pasebout describes a syndrome which develops over a penol of many y ar as the result of mild appendicity in infancy or early childhood and i eighteen tum s mo e common in females than in males. The condition has been thoroughly studied from the beginn ng inflammatory stage through the obstru ti e penod to the final septic stage but the constance and the site of the supracæcal strange la tion often noted have not been emphasized

The condit on is most often described as a mem branous or cicatricial periculitis and has been treated by numerous operations such as a onlica ture creofixation coloners colectoms and typhic s emoudostomy. It has three long periods-the first in nfancy the second toward pubetty or in early a fult life and the third in mature ad It life

The first period has often a prodromal stage ha actenzed by gastne symptoms frequent in h ge tion om ting asthenia con tination and a ute abdominal pain athout exact I calization appendiceal stage 1 prolonged an I characterize I by con tipati a followed by hepatic disturbances and vagu r at times acute pan in the right if ac fos a with ut fever you ting or muscle pasm nalpat on reveals a localize I tender point appends eal pla e is never associated with the external inflammators sign of append citis or of even a m de ate ris s The patient apparently recovers but loses we ght and the condition recurs at vary ing intervals during childhood. Lo s of desire to defacate the appearance of traces of albumin in the unne and t times coli hacilluna occur In the second stage there is more generalized pain

n the right side from the hypochondrum to the pelvis. Other signs are slight abdominal distention gurgling (always carcal) a pal; able carcum which i na nful during onstipation sught and irregular fe ver frequent dysmenorrhoza and as a rule leuco ray ex mination with the use of barrum shows di tention of the carcum and barium retention in both the carcum and the ascending colon. If untreated the patient continues to lose weight with

or Bithout periods of transient amelioration. Gen and abdominal ntosis occur The gastro intestinal tract becomes atonic Periods of alternatine con stination and diarrhora increase Oliguna albumi nucla and nyuna are often present

The third stage of the condition is characterized by obstructing stenosis and senticity Paschoud has seen only a few patients in the sentic state. All had complete obstruction and were schously tone Both the immediate and the late mortality was high

The acute classical appendicitis with inflamma tion of the base of the appendix and cæcum and at times of the ascending colon and the terminal part of the sleum may also be associated with board like adducation but never leads to the condition under discussion becau e the injecting agent and the reaction of defense are entirely different Ordinary appendicitis is caused usually by the streptococcus hamolyticus and more rarely by the streptococcus vindans whereas the ascending colitis type is due to the colon bacillus probably associated with an aparrobe usually the baculus perimagers. The au thor agrees with Okynczyc that the colon bacillus localizes first in the appendix and i the cause not

the re ult of the stass

Important factors in the production of partetal cicatri ial membranes and supraesecal obstructing hands are the encocolic lymphatics. The yast net work of exco appendiceal hymphatics end in the described alands along the terminal part of the supe nor mesenteric artery and continues with the ascend ing colic lymphatics According to Cupeo the sleocacal glands connect with the glands of the root of the mesenters the ascending colon and the nametal lymphatics. Croizat has de cribed anas tomoses between the appendiceal colic renal he patic and daphragmatic systems. The caecum is held by (1) a ligament which arises on the outer carcal vall and is inserted high on the postenor abdominal wall just under and at times partly on the Lidney (2) a ligament formed by the insertion of the mesenters and (3) the appendiculo-ovarian ligament or the falciform peritoneal fold which unites and connects with lymphatics of the appendix and overy and may explain the origin of overtis and salpingitis on the right side due to the colon bacillus

By I ray study which should be made with the patient in the standing and recumbent posit ors the three quarters standing and recumbent positions and the Trendel nb irg po ition the carcal mobility the degree of di pla ement and the eventual patho logical fixation may be determined. The appendix

s visualized more often than is expected

Paschoud urges prompt appendectomy in the cases of young perons with even a doubtful ap pendicular pha e preceded by the prodromal period and followed alternately by con tipation and diar those with large quantities of indol and shatol and a trace of albumin in the unne and especially a beginning coli bacilluria An examination of the according colon should always be made Simple

The processes of diffuse pentantis is much less The prognous or consuse periodusis is much less favorable. Of seventy two patients with diffu e periodus forty-one died. Appendectomy was performed in twenty-eight cases. In twelve reneated incision and the establishment of drainage was all that could be done Lavage was done in nincteen cases The mortality was so o per cent In more than two thirds of the fatal cases per tonitis was the immediate cause of death. Thenty eight patients die t of diffuse pentonitis Sei n cases presente ! in addition to the abdominal le son nothing but al ght septic swellings in the splere and tumescence of the I cam t sue In four cases there were nulmonary et mulications from extension of the peritoneal pricess pulm nary af scesses and scott culm nary harmorrhages. In ten cases there were fisturbances of the circulatory organ espe-cially the heart. In f ur cases, paralytic deux I vel ne I as a e mplication of the peritonitis after

the fifth day and proved fatal Of the remaining thirteen death two were can ed to heart failure after healing of the abdominal less n two is al seeses of the beer associated with sul phre ue al scesses five by pneumonia two by embolism and one to sense after conditions within the at I men had become normal. The mortal to rates given by other surgeons in comparable cases were as follows Moskowitz 85 per cent Hoernike 78 per cent Fromme 75 per cent Vogel 76 per cent Seiffert and Augustin 60 2 per cent Steichele 64 per cent Tiemann 62 per cent Slemund tr per cent Zen ler 55 per cent and kngel 43 3 per cent (last rer entage based on only thirteen caves) In sentic toxic peritonitis lavage may give n e to the m st alarming symptoms from slock to the pe itoneum. In liffuse suppuration or facal exalate thorough lavage is undoubtedly of benefit Relateral drainage preferably with the addition of drainage of the pouch of Douglas 1 considered the test procedure

Table 3 shows the causes of death in scute appeal it in and the duration of the condition. The most secret lessons were found on the third list. In these case, operation should have been performed learlier. This group shows a higher metalist, than any of the others but it is supported that in 877, cases operated upon within the fix that the second of the second of

Thomase's amption that the prognous of year distances are substantiated in the thirty and cast extend by the author in which death was due to personates the death were distributed over the personates the death were distributed over the personates and a which shows that a prittent who has been operated upon for acute expend cuts moved of distances personated upon Of 250 patients operated upon on the first day only a per cent dead personates. The portality rases with the legth of personates are so when the legth of the death of the personates when the legth of the death of the personate was set with the legth of the death o

of time the disease has been present reaching a maximum of 61 per cent between the secenth and tenth days. The great dark to delay is therefor evident. The Swis mortality rates for the year loss never a fully.

Table a rives the cause of death and the lornh of time between the operation and death. The latest death which occurred astry to days after the operation was due to pulmonary tuberculo—In all of the fatal sentic topic cases death occurred before the end of the fast week usually on the third or fourth day. Patients with pulmonary complication cardiac de turbineses and pranticelless survived until the end of the second week the contract of the pulmonary complication is with fusical aboves as I yet I to the third week.

The importance of age in relation to the progno is of appendicities is shown in Table 5. Nearly 70 per cent of the privates were between the tenth and the private of the state o

The proprio is was found to be best in the vesar of lief in wh happendicties most f equent. Be fore the tenth vear of age the mortal ty was 56 per cent. Ritter gives it as 0.5 per cent if vibe first fitteen years of hie Senfert and Vugustin a 1.4 per cent for the first decade 160 mann as 15.3 per cent and Zender as 25 per cent. The pruimal portainty of 1.5 per cent and Senfert with the tenth of the control o

The mortal ty after operation for appendents

to amministrated as in	J40 143				
	It les	F males	T tal	D 41	· ta
Acute non pe forated phleem nous ap- pend cut feut perforated ap-	68	608	1 90	9(3)	69
icut perforated ap- pend t it's ab- a cra	87	79	65	3(5)	7 57
gran ng penton t	135	3	38	0(7)	4
Append of while fuse pent n t s Choose appe do to	38	34	7	4()	569
and cas op rat d	63	563	8 6		
Tot I	t	386	59	73 36)	78

The total mortality was 2 81 per cent the mor tal ty of acute appendicitis 4 13 per cent that of

depends upon the activity of its musculature. The

It has been generally believed that during diges ton ones that this arises to the storach or intestine which reflexly induces the musculature of the gail budder to contract at the same time that it e-sphine ter of the common lule duct is opened. Whitaker extre considerable proof against this issumption One of the supported reciprocal parts of the mechanism can be destroyed is without directly affecting the

Whitaker rites experiment which seem to indi cate that a partly collap ed gall bladder ; a mo e efficient concentrating mechanism than a listended gall blad ler It is conceivable then th t in any condition in which the call bladder is maintained in partial collapse and realling is prevented concentration mi ht g on to precipitation and that the con litions favoring the formation of gall stores in the human subjet may be those which maint in the gall bladder in a partially collapsed state o er forg periods of time Such partial collapse could be brought about 1) (1) too often repeated stimu lat on to emptying ie frequent meals or (2) insuf ficiency of the sphincter of the common duct from hiel pre ents refiling I ossibly also de bilitating diseases such as liabetes of typhoid may lower the muscle tonus of the gall thatler results of in in omniete emptying and stass There a little lo by that rea tions to infection play a part in ch lelithiasis, but this is not incompatible with the fo emine concent

In attempts to prevent the formation of galf t nes stasis must be ombated by proper letetic thathit to frequent feedings but the ingestion at long int vals (I meals farls met an fact in fat is and ated to person should be hunery when he eats as hunger

on tes that the tone of the alimentars casal and still hal fer ship. When a meal is steen under such conditions the discretive or, any strack it rigor unds and the gall hal fer empt estiseff in a fees hours. The meal is r pith di po el of and the pall halder tapidli seellis with hole. Small stones and d byts an be clea. I out of the gall hal feet his po ces. Seen when the or, and is do ed to the extent of stone formation it may show a great leal of act int. Hone eff it contains my a feet of farre for e s. passage through the cystic duct the simple for the first may foot in chin fat may only aggressiate the symptoms. Under such conditions the only recourse its cholescistectom. J cos & Goz. V.D.

Finkel tein B Echinococcus Di ease of the Bile

Passages Ech k kku de Gal, ga ng l i

k m/d Ck K t d T k ha t b B ku
10 p t 4

Echinococ us diese e of the bile passages i very r in the Transcauca u constituting only a per cent of all echinococcus affection. In 147 over a tr r for echinococcus citat the author found in wherem t it the deeper bile passages in only ten in the I terature he was able to find only thatty

eight rases. He divides ca e of echinococcus infection of the biliary tract into three group. (1) echinococcus disease of the gall bladder (2) echinococcus disease of the deeper lile passages and (3) echinococcus disease of organs onligious to the bile ras ares. In the last eroup the Costs commerces.

the bit passages mechanically. Echnococcus disease of the gall bladder is very time. In almost all of the air case is known to the outbor (two of them his own) suppurstive inflam mation of the gall bladder was found. To date it has not been determined whether the echnococcus c n devel p in the gall bladder primarily. In one of the authors case which was fatal authors reveal I a purulent sud diaphragmante echnococcus exist. It is no obthe therefore that the evist in the

rall bladder was econdary

"The clinical p. ture of echinococcus infection of the gall hadder is shat of an inflammation which develop slowly and may be associated with jain doce. As the result of the infection the pain and temporature increase and the picture of pertinuits develops. If operation is not performe I the condition lead to empress and the gall bladder—as in one of the authors cases in which removal of the gall bladder—os in one of the authors cases in which removal of the gall bladder—os in one of the authors cases in which removal of it ration into the free pertinolar anity—os occurred in the author is secon Lea. The fluid in the ab John and castly may have the character of an assume fluid for a long time and the amount of It may be very large (up to not liters).

If the gall blad fer alone 1 affected operation mess a very good result unless perforation into the fee abdommal crivity has occurred or there is a suppurating echienocerous cyst in some other tegon. In the absence of complications a simple choice crite town win the performed and it as it tills are crite town win the performed and it as it tills are crite town with the performed and it as it tills are not forced to the control of the cases in which the wall of the gall blad let.

is markedly changed

Finkelstein kn vs of thirty four cases of echino coccus disease of the leeper bile passages three of which wer he own When there is obstruction of these passages by an echinoco cus cyst and when there is a communication between a cost and the hile passages the clinical picture is that of a severe holangesti Vearly al rays the condition is due to a cost of the liver which suppurates and communi cates with one or both of the deep bile passages or the pa ages are obstructed by daughter costs The ga I blad fer also is involved. It becomes consider ably distended its walls become thickened and the bile becomes cloudy or purulent as in a case in which the author was obliged to drain three cavi ties-a cavity in the right lobe of the liver the gall bladder and the greatly dilated choledochus which was obstructe i by a daughter east

In some cases the diagnosis may be made before operation—is for example when echinococcus cy is are expelled. In other cases a definite diagnosis can not be made even at operation. The most serious

appen lext ma offers a gard chane, for cure in the first peri du un of for e tablished excools casais. I aschoud does not approve of casolizati, not except period to the casolization of the fine stiff of the casolization of the fine stiff of the man as execution under with proDays, internal disander time of the fine stiff of the fine stiff of the fine stiff of the fine stiff of the s

WALTER C BURKET WID

Gurewitsch C. M. Intestinal and Intraporitoneal Harmorthage Alter Appendectomy (Uber D. m. u. 1. Itapent n. 1. Italut g. nach Appent kt. m.) 2. l. lb. f. ch. 10.0 htt. 2.2:

In the author sequence them to minon causes of intestinal or futzar in a libam rilage and intestinal or futzar in a libam rilage and intermed me entery and contentium is to consequent embod of the particular tract. Frequently, but have combined as meals all cases of 1 amorths cleanly support the chancel signs of an infection (an increase in the temperature child ect.) Currents the report a cause of this type in which the harmoniage was caused by end 1 m of the intestinal wall.

He reg it a list 1 c a awes in which app en lections, was fellowed; I untrapentoned hum orthage and 1 the secundulation of air in the abd immal cavits. On the fourth of fith has after the operation the patient so lienly expert once I severe point the flat of the partial of th

ne and hemorrhage voming
I sammation oil the lun of tump revealed en
titled, normal conditions. The fluctuates seen instead
and there was no visible betting. The subtree
the substance of the su

LIVER GALL BLADDER PANCREAS AND SPLEEN

Vespignani A Variations in the Impression of the Gali Diadder on the St mach and Duo denum in the Roentgen Pt ture (5 lie ar z idell mprot dil d tifelle nil immi gi tal 1 gca dil st mac e dil duod n.) 1 k and d. 19 7. 25)

tid d ch. 19 7 287

The impression of the gall bladder on the stomach and duodenum is one of the best indirect signs of cholecystitis. It appears in the form of a regular

concave line which is more or less are hed shabilities curve is characteristic. Unoue at hed curve must be differentiated from that of Riesel's bloe. The signal blads for impress on is distin uished from the impress on of the colon by the gas in the colon and to the fact that the colone impress on the theory of the colon by the gas in the colon and to the fact that the colone impress on the fact that the colone impress on the colone in the colone

In general it may be said into a said libries in press 1 and cates increased teasin within the gall lial fee or abn rmal re stan e of the gall bladfer walls. In the great majority of the cases operated upon an impression has been found to induce the said of the said of

Whitaker L R The Mechanism of the C II Illadd c and Its R lation to Cholelithis is I im II is 10 7 l xxx 541

What Let states that there are two views as to the receivant in which bule from the gall blader is det cered into the interesting after the registion of food. The one most generally accepted is that emptying us a p x opnoses 1 pending upon reternal pressure and the elasticity of the vision. The others that the continues of the gall their art he cell out that the continues of the gall their art he cell out the continues of the gall their art he cell out the continues of the gall their art he cell out the properties of the propert

covariate latter a ment expe subject to the analysis of the gail blad let. Whitaker aries a amous and nuese and experiments to show that the amous and nuese and experiments of the first the subject to the subject to

The gall bl dder may be a completely emptied after the ingest in of fat that rot a 1 sle drop of bile will drip from the lumen. The sevidence that elasticity is a t the responsible eliment. Smooth muscle stimulants contract the gall bladder. In Whitaker so pution the emptying f the gall bladder.

In a case reported by latel and vergion a peri jeine harmatoma which was formed after tup ture of the spheen into halves remained negoted in the plenut pocket with fee she that presented for ele and say. The platent had returned to work when it Simpson has reported a case in which no local hard found when the peritional fawily was opened but when the hand was introduced into the abdomen on the left side and the omentum was pushed back from the anterior all lominal all a the of 100 and so was exacuted.

An intra pleni or subcapsular hæmatoma with an intact capsule may rupture and cause delayed ha morrhage. The plen c pulp may undergo exten sive destruction up to the vessel of the hilum and the intact capsule may circum cribe a large hæma toma in which floats parench mat u debus

An apparently superficial miury of the cansule may be a sociated with extensi e crushin, of the olen c pulp I ut a bit of omentum or a neighboring organ may there to the cansule ound and limit the life I ng until the barrier is forced I ; increased pressure \ motor cyclist who was knocked uncon crous in a cells a n with a street car showe I marked immed ate improvement, but on the following day operation became necessary because of persi tent nain and contracture in the left hypochondrium lernn f und a very mall quantity of black thod in the abd men Removal I the omentum which was a therent t the I wer pole of the pleen re vealed a fs ure 3 m long Just as a stitch as being t ken some black clots escaped. These were foll wed by a profuse ham rrhage which nece a tate I a rapi i plenectomy. The c ps le was found alm st empty and nly a few fragments of the parench ma were dherent to the deeper surface In a cale reported by D muln the signs of

In a case reported by D muln the signs of homor hage appeared very late as the torn cap use as rolled up like a hood so that it imm bilized a number f i tru ting blood clots

A sub. It have speed the own to be the great of the substitute of

When a serious splenic injury is suspected be cau e of the nature seventy or site of an injury the patient should be kept in bed under ob ervation for a week or longer after the accident under the nation of the pulle and the shoumand contion has permitted the author to operation of the delay of the national section of the delay of the northage. Hamorrhage often occur is strong the northage of the notion of the delay of the northage of the nor

The author concludes that in severe injuries of the splean tergon absence of the signs of errors her open activation of the splean tergon absence of the signs of errors hours contracture and pule rate sign est a spleane rajury. When instead of a peri pleane or sub apsular hermstoma on the verse, of unputer operation discloss only minimal leasons with perhap have healed pointaineous; pleantriaphy ill be succe state. Cerous injuries that would ent in delay for the first point of the succession o

When peel and exten we exposure are e ential the author prefers the large transverse ince ion of Ruger. Durin the latent period the elhow in ision of Mayo in the upper part of the ablom in on the left si le gives an extellent approach to the spleni pocket and to the upper pole of the spleni under the disphrage.

The author reports et hiern collected cases Re covery resulted in eight and leath in ten
WALTER C BURKET M.D.

Schleg I A Traumatic Ilæmorrhage from the Spleen after a Twel c Day Interval (Tra ma tische VI bil tung mt 11 ta n em I tervall) B i ki Ch 916 c 161

Traumatic rupture of a health spleen is rare The d eased pleen is ruptured more frequently The incidence of splenic rupture is greatest in malaria (70 per cent) typhu other infectious I seases entic conditions and the hamorrhagic diathesis The chief signs are shock due to per foration and internal hamorrhage. Hamorrhage d es not always occur immediately after the injury sometimes it may be delayed for hours or even days Koerte gives the longest delay as two or three days but in the l terature there are reports of fifteen cases in which the interval varied from one and a half to mine days In the author's case it was twelve days In e ery instance splenectoms was done Three patients died and twelve recovered mortality was therefore o per cent whereas when rupture and hamorrhage occur at the time of the injury the mortality is 35 per cent

The author's case was that of a man 43 years of a e who was admitted to the ho pital with symptoms resembling those of gastine attended marked rigidity of the abdominal wall a small pulse

complication of obstruction of the file passages is perforation. In on of the author's cases there was an echin voccus cyst on the uniter surface of the liver. During the operation this cy t was opened in a sit c minum ates! with the bile passages all of the bile flive! to the exterior and the pastages.

gra tually succumbe f

Of the authors cases of operation for obstruction of the bile passages recovery resulted in to and death in one. Of twenty such cases are ten the interview operation as set like in only left in the historium operation as set like in only left in the stages (i) cholectivetomy (i) from pleurid in the stages (ii) cholectivetomy (i) from pleurid of the plant of the stages (ii) drawpassages obstruct (ii) the cysts of the bile is ages obstruct (ii) the cysts of the bile is ages obstruct (ii) the cysts of the bile is ages obstruct (ii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agree obstruct (iii) the cysts of the bile is agreed to the bile i

In cases of echin seccus dease belonging to the third group those with innolvement of organs conuguou, to the lihary tract—the prognosis is good e pecually when the gall biddler is merely com-

pres ed

The auth r oncludes that the recognition of all forms of exhinoncerulices of the hile pass) apre ents area! Influities which can be overcome only by very careful of inical and roomleen examing it may and serol grail tests.

Schwarz M. The Ducts of the Pancres and Their Importance in Resection of the D od num (D) s. Crystin it is use p. heli fuer in I seene. Red utu. e. f. r. d. D. od n. Iresekt. n). Dori k. 27 k. f. Ch. 2026. cc. 355

The Jucts of the pateres show extraordinary variations Clarimond a singuished entipses. The relative infrequency of sections injuries to the douts in the course of recetions of the duo forms in due to the fact that duo fenal uf er occurs most frequents, et al. ecc portion of it eduodenum. I am entitle the contract of the contract of any detinute shape of the practices and the form of the glant is modelled by the prechast available.

In general, the or, as in hammer or tongue shipsel. The panters is develope from two central anlargs and one of real anlarge. One central anlarge and one of real anlarge. One central anlarge that the property is the from the other is developed a part of the head of the gland with Wirsunga's but as its exercisor, but it from the dorsal anlarge are developed the tall developed the tall the control of the developed the developed the control of the developed the control of the developed the control of the developed the small dorsal anlarge is set in more control of the developed the small dorsal anlarge is set to more control of the developed the small dorsal anlarge.

tance in a latter of committee the state of the committee which is fively limine lately after their removal from the cadaver. He found that of the vistor methols of cavimnation simple dissections was to In teenty five pancreases bandonin's duck vas entit chalasent in twenty three it communicated with Wissur as duck but was proceed cases in would be compared to the committee of the committee with the committee of the committee with the committee of the committee

favorat le sequelæ since a part or in rare instances all of the gian i may empty its secretion into the duodenum

The course of Wirsung a duct through the tail of the pancreas as of little practical importance. In the head portion the duct usually bends caulad and lorsal but the direction of its course varies wisted. In due fend resection it is necessary to consider only injury to the small lateral branches of the duct.

Sandonus duct carries off the pancreat c june from a portion of the pland which I e on the heal of the pancreas exten ling ventrad from the oral port in. Sandonus duct shows even greater tarms to make the pancreas transfer to the pancreas transfer in the decolumn of the pancreas transfer in the

The sasstomosis of the ducts occurs usually in the head of the pancreas and more rately in the body. It is a rule thin strain is near the polorus may be sectioned with safety the greater the distance from the duodraum the more important are the fuct open up into the duodraum.

It is noteworth that pacreases with a well develope I Santorin duct usually have a hammer shape I fea I Therefore when the head is hammer shape I it is partially important not to injure Santorius aduct

The blood supply of the pancress is derived from the superior and inferior pancreatics by deal arteries Because of the all un jance of anastomos's section of the superior artery is usually not important.

Perrin Dels ed Internal Hæmorrhag in Inju les of the Spicen (Lhém rag int ne et dé la les traumatismes de la rate) 1 h f necbits de ch 10 6 xxx 606

The synds me of rupture of the pleen is dom pated by internal harmorthage. In some cases the harmorthage occurs immediately after the accident and causes death within an h ut no. In other cases it may be delayed for from three to teneity four bours and in still others may not occur untifrom three of four days for our with the heart form three of four days for the plant three he matters. I believed to have recovered.

Detective and sulesy vindings was shown that as a result of pion and sulesy vindings was shown that as a result of pion shown as a result of pion shown as a persistence of the shown as a persistence of the shown as a persistence that a persistence that not the potential properties of the state a persistence themselves on the potential properties of the shown as formed following the outside of a malanal splicar push of the draphragm up c us gregarator, embarrassment forced the colon do n and pushed the stoma h to one sade and the splicar sag as the top pattern a bedominant wall

well defined connective tissue cells both fixed and wandering These cells which are derived from the fixed connective to sue elements are the great phagonates of the body and can be vitally stained -an evidence of the storage canacity of the cell of

this exstem In his di cus ion of the splenomegalies Whimple considers only those that are associated with a secondary anymia from the standpoint of dis turbed physiology of the rety ulo endothelial system The e are grouped as Banti s disease hamolytic saundice and thromboes tie nurnura hemorrhanica Gauche s disease and splenic anamia Leukamia pernicious anæmia and polycythæmia are excluded as these conditions are related primarily to dyscra

sias of the blood forming organs

In Banti s disease some irritant stimulates the reticulo-endothelial apparatus of the spicen to an abnormal dest uction of red cells. According to the most generally accepted theory the enlargement of the spleen 1 a response to a chronic inflammatory process and the anamia is the result of over activity of the blood dest owing splenory tes The beneficial effects of solenectomy in the early stages of the d se se layor the view that the p imary cause is in the spleen

It is in hamolytic jaundice that the phagocytosis of red blood cells passes from the physiological to the extremely pathological Whether the agent caus no the increased fragulity of the red cells is s tuated in the spleen or elsewhere in the reticulo endothel al apparatus i still unknown. However the fact that a th the removal of the spleen nathological ed cell destruction ceases speaks for the hypothesis that the red cell destruction is con

fined to the solven

In purpura hemorrhagica the relation of the pleen as an etiplomial factor is not so well under sto d but the fact that many of the cases of chroni thrombocytopanic purpura remain cured for per ods of tive years or longer after splen ctomy

rgues for a causative agent in the soleen. However not all cases are used by operation. As the plate lets are fex or absent and as the reticulo endo thelal cell get rid of jaded or excessive blood platelets it appears that some pa t of the reticulo endothelial system s ove active Whether the eticulo endothelial cells of the spleen alone or of the entire system are involved is still ... debated Undoubtedly the spleen destroys the platelets as there is a sharp rise in the platelet count after splenectomy However the rest of the reticulo-endothelial system is allo involved efficien v of splenectomy depends upon whether m st of the pathological change is still confined to the spleen

In Gaucher's di ea e the characteristic cell (according to Aschoff and Mandlebaum) are de r ved fr m the reticulo endothel al cell of the organs in which they occur It appears that in this di ease some irrit nt gives rise to abnormal activity of the eti ulo-endothelial cell in the spleen the

liver the lymph nodes and the bone marrow These cells problerate mostly in the splenic sinuses In the splenic anemias a close resemblance is noted to Banti's disease and the in lication for

splenectomy and the prognosis following splenec tomy are the same as in Banti s disease

In conclusion Whipple empha izes that in study ing these diseases we must think of them from the point of view of the reticulo endothelial system. The derangement of the function of the spleen in these clinical entities seems to be due to derangement of the reticulo endothelial cells and the extent to which the derangement of the reticulo endothelial cells is limited to the spleen determines apparently the efficacy of splenectomy

HERMAN HI HUBE MD

Preliminary Ligation of the Brzosowski A Splenic Artery as a Method of Avoiding Loss of Blood in Splenectomy (I ael mina L gatur d r des Bluts 1 te be de VI lze t mat on) Ao vi ch 061 225

In the removal of the malarial soleen the author obtained a ploodless field by separate ligation of the artery and vein of the vas ular bundle entering the splenic hilus. When the abdominal cavity was opened isolated ligation of the splenic arters was done and after the volume of the spleen had de creased markedly the vem was ligated and the spleen then removed. In this manner about 10 per cent of the entire quantity of blood can be saved

The author believes that the method described should be used in all cases of splenectomy when possible. He used it first on October to 1923 and only later heard a similar recommendation by Lotsch made before the German Surgical Congre s

BOCK (Z)

MISCELLANFOUS

Gerulanos M. Chronic F stula Formation in the Abdomen (Chron sche F telbildung in Abd m) Zent albl f Ch 20 6 lu 036

The a discus ion of the pathologico anatomical findings in fistula formation following simple pallia tive operations in suppurative condition of the abdomen

The author reports the case of a 25 year old woman with a fistula in the ileocacal region which had been d charging pus for eighteen months. The pr mary condition was diagnosed as acute suppura tive appendicitis and the first operation consisted in the removal of the appendix and incision and drainage of an ovarian cyst. The operation for closu e of the fistula whi h was performed through a median inci ion revealed a finger shaped structure about the thickness of the little finger and 8 cm long which practically free from adhesions extended transversely through the abdominal cavity from the region of the fistulous opening toward the le er pelvis and there terminated in an adneyal tumor

an I marked ten lernes to pressure over the epigas

Operation performed immediately lisclosed about a liters of blood in the abdominal cavity. On the conversty of the spleen there was a hole about the size of a 3 mark piece from which the splenic pulp protrude I The edges of the hole were ragge I The spleen was removed. The panetal peritoneum showed no changes

The patient at first gave no history of trauma but on subsequent questi ming by his wife he stated that twelve days pe mush a fello had struck him on the left side with a shot 1 The convex surface of the shovel was dire tel tov and his left his and the patient had the feeling that the projecting from han lie of the shovel was driven into the skin. He experienced no other inconvenience from the blow ho ever and remained at work T velve days later when he was pulling on his socks in dre ing he felt a sudden severe abdominal pun which progre se I to the de elopment of the syn frome des ribe I on his admission to the hospital

To of tain compensation for the injury it was necessary to pro e the relation him between the delaye I hamorrhage and the accident which had occurred twelve lays previously. This was accomplished by the interrogation of vitnesses and mi cro copic examination of the extirpate I spleen

The spleen measure I it by 8 5 cm On its con we its there were died blood clots and a crater lke rent with irregular borders. Separated from the latter and about a finer's breadth from the upper pole there as an irregular tear. The pleme capsule showed a tum r like s ell ng due to bluish red masses of clotted blood which could be seen through it

In the region of the crater like lenress on the cut surface exhibited an irregular mas of blood clot extending almost to the hilus. In the neighboring tissues there were other blood clots the whole mass making up about a f urth of the substance of the organ Between the mas es of clotte i blood were brid e like strands of intact splenic tissue

Examination of the hymorrhagic areas in their relation to the neighboring tissues showed areas with no changes of n te and other a eas in which new vessels were sprouting from the splenic tissue into the blotted masses of blood viz organization p ocesses At least several days are necessary for the process of organization t progress s far as this Therefore the rupture of the spleen with the hamor thage hich necessitated splenectoms could be ascribed to the injury sustained twelve days previousis

At the time of the injury bleed ng occurred within the capsule. This remained latent a d even began to organ ze but s hen the expsule was reached after an interval of twel e day severe hemorrhage occurred Exterpation of the scheen has esulted n no change in the blood p cture. The capsule offe s powerful re istance to the spread of hamorrhage It is only when the internal pressure overcomes the

capsular clasticity that the capsule is lifted up a id a blood cyst which bursts with the slightest traums is formed Sprea I of the hamorthage may be hin dered also by the formation of adhes as to the surrounding structures but when hamorrhs e is su pected operation must not be delayed too lon

Whipple A O The Relation of the Reticulo Indothel al System t the Spienomegali a
A soel ted with Non Specific or Secondary
America \ \times 0 l \ s \ l \ \ S \ J \ 192 \ Imp

In discussing the histology of the spleen the author emphasizes particularly the reticulum or delicate supporting framework of the spl nic 1 ulp The fine fibril of this structure are hined with flat endo thel al cells an I form a part of the ret culo endo thel al system which is found also in the lymph nodes bone matros and hver

The physiology of the spleen is summarized according to Liumbaar as follows

1 The mammalian spleen is not necessary f t the maintenance of normal existence and ta is many of its functions with other members of the hamolytopoiet c system but under certa n st esses its presence may be the deciding factor betwee life and death. Its functions are indicated in gels by its structu e its reticulo er dothe al cell con tent and the changes produced in other organs by its removal

2 The spleen 1 a blood receivoir 3 It is concerned It is concerned directly in bl od-cell forma tion dury g fetal life and has an ind rect infly ce on blood formation throughout most of adult I fe It is intimately concerned in the process of

red blood cell destruction it has the ability t remove blood cell and bacteria from the blo l It has to do with s on metabol sm a the body prepares b l rubin pigment for the li er

5 It 5 ms to be an important site of antibod formati n It plays a part al o in resistance

6 Its relation to metabolism is le s manifest 7 The liv r lymph nodes flympho d tissue gen eralls) and bone marr w are s closely allied s members of the hamoly topotett system that th y share cert n of its functions normally and quickly

take over the rema ning share after its extirpatio Pea e a d Krumbaar state that after snlenec tomy in dog three prominent phenomena a c observed (1) anamia of the secondary type whi h may be ome se ere in a month and then be followed by repair (1) increased esistance of the red blood cells and (3) a lessened tendency toward hemo

globiruna and) ardi e The reticulo endothelial system is distributed th oughout the spleen the hver the lymphat c system the bone mar or and the vascular net work of th m ntum and mesentenes In clo e

ith the minute blo d vessels a d sociation f the co nect ve tiss e framework of blood space these organs and structures there a e found certa a

GYNECOLOGY

TTEDIIS

Results of Operations for Retrover Bued R A 1 06 1 & G C 1017 311 74 elon 4

A study was made of the re ults of operations for retroversion performed at the Woman's Hosnital The observations made in the New York City course of this study may be summarized as follows Retroversion 1 most often complicated by

an accompanying inflammation of the cervix or adness with resulting perstoneal adhesions which restrict or even completely inhibit the mobility of the cornus

. In very few or no instan es can the operator be accused of unwarranted surgery in this group of cases Even in the cases of patients whose uten were freely mo able a definite complaint was pres ent and in o er go per cent of these distinct im n evement followed correction of the malposition The percentage of all retroversions which pro

du e symptoms cannot be determined from a group such as this for all these women e cept possibly a few who came for sterility presented definite com

plaints before operation

Abdominal pain of various types and decrees appears to be a more constant symptom in retro version than ba kache although the latter al o appears in a large proportion of cases

Retroversion more than almost any other gynecological lesion is an affection of the child

bearing period

6 Only 4 per cent of a large series of patients with et o ers on complained of sterility and more than half of these had also inflammation of the Freenancy followed operation roughly adnexa once in four cases

The series sho s of per cent of anatomical cures throughout the period of observation which

averaged twenty month

8 Of the operations frequently done for round I gament suspension Bissell's operation vas followed by the lovest and Gilliams by the highest percent age of recurrences

o Pi cation alone of the uterosucral I gam ats was di tinctly unsuccessful in the few cases in which it was used although it is p obably a valuable adjunct in other suspension methods

The end results of retroversion operations considered symptomatically appear to depend largely upon the symptoms which the lesion pro duces One may expect a higher proportion of cures then the patient seeks treatment for pain backache or other discomfort than when she applies for relief of ster lity or some disorder of menstruatio

That the reconstructed supporting ligaments of the uterus can undergo evolution during preg

nancy a demonstrated by the occurrence of few spontaneous abortions in women the have under gone operation

A full term pregnancy was followed by a recurrence of retroversion in a previously suspended

uterus in about one in seven cases

T. L. CONVELL M.D.

Wiemann O Expe fences with the Alexander Adams Operation in 1 005 Cases at the Marburg Clinic (Erf hrungen mit de Alexander Adams h Operation and oos Fellen der Michaeler Lil.)

Zi h f G bu i h G h 227 x 640 Zi h I G bu i h

During the years fort to to a the Alexander Adams operation was performed in 1 005 cases at the Marburg Clinic There were 50, cases of retro flexion 136 of r troflexion with descent or pro lapse and 164 of descent or prolapse alone In 547 cases the Alexander Adams operation alone was performed

The peritoneum is opened as part of the tech

nique at this Clinic

Certain di turbances were noted during the period of bealing. In twenty mine cases there were signs of inflammation in the operative wound, due apparently to some fault of the cateut. In fourteen instances the temperature reached too t degrees F (18 C) Lostoperative harmorrhage occurred in five cases nneumonia in eight cystitis in ten and an ertra vasation or exudate posterior to the oterus in three cases There were six deaths two from peritonitis (one following curettage) and one death each from sepsis lung embolus bronchonneumonia and ner forated uterus with hamatoma in the right para metrum and intoxication. In the case of perfora tion of the uterus curettage had been done trailight sleep being induced with paravertebral anasthesia

. dether

The results of the follow up in 457 cases are grouped according to subjective complaints and anatomical findings. In so per cent there were no complaints and the anatomical findings were good no complaints in 72 7 per cent good anatomical result in 81 8 per cent but there was a continuation of symptoms and recurrence in 2 3 per cent

Of a total of 602 patients 193 became pregnant after the operation of these 123 were watched carefully during the delivery. There were recur rences in 7 2 per cent half of which occurred during the first years after operation In the cases operated upon during the war recurrences were twice as frequent as in the post war cases As cause for this are suggested undernourshment relaxation of tissues and ligaments increased work the impossi bil ty of taking proper care immediately after the operation and also the fact that during the war

embedded in adhesions. It was possible to pass a s und from the fistulous opening into the adnexal

On meroscopic examination the wall of the fature to lous cord was found to be formed by firm connective tissue with fuers running in a circular direction which surrounded a central canal hined by inflamma tory granulations. The inflammatory processes produminated toward the center of the canal and the connective it sue became more dense toward the connective to such descriptions of the connective toward the connection of the conne

It was apparent that from the original addis ons there was formed under the influence of continued suppuration a tube shaped structure which led he puts to the external surface. The chronic inflamma tory processes which lead to the formation of such structures are seell known. As a rule however op creation is performed at an earlier stage. When the inflammatory processes are still active and the addissions around the fistulous canal are firm and evice sive and the operative liberation of the adhesions destroys the canal. This explains why there are no reports of similar structures in the literature. An other teason is that when the suppuration is of short duration such a canal may not be found

In the case of a 2 year-old woman with tubecu. In the case of a 2 year-old woman with tubecu is adnexible an abscess was opened at operation Eight months later raducal removal of the adnexible and a fixtubous creat vas some. The fixtubous creat was firmly, adherent to loops of intestines and to the monentum. In this case also microscopic examination showed the formation of a connective tisse will with circular fibers which was limed by grain

lations
In the d cussion of this report you Risk treported on the treatment of epithelium lined fixtus. He stated that h had closed a pancrature fatula resulting from a pancreture cyst by destroing its epithelium with one radium; readation. Be fore the introduction of the radium tube the 6 tuils was disherd with a laminant ent. Illurate (2).

tion only. Incomplete removal of the pelvic contents is not a satisfactory method of treatment E. L. CORN II. M D

MISCELLANEOUS

Norris C. C. and Vott M. E. Rediation in Campoology S e Cl 1 A fm to27 1 315

Among the benign gynecological conditions treat ed by pradiation the authors mention one case of

granuloma inguinale as cured

Uncomplicated endocersicitis was treated by the insertion of 300 mem hrs of radium into the cervical canal with telief from leucorchesa in 75 per cent of cases and improvement in the remainder Selected cases of benien uterine hamorrhage and

magnata responded ideally to irradiation. Bleed ing was checked in os per cent of the cases the usual dose being 1 200 mc hrs In voung nomen not more than 300 mc hrs were given and the dose was repeated nithout untoward effects. Fifty per cent of such cases were cured and 30 per cent more benefited

Makanancy about the external genitalia yield to teradiation only when diagnosed early. The treat ment most beneficial is the implantation about 1, in apart of bare glass seeds containing from of to 10 mc each. Carcinoma of the vulva is so treated. The inguinal glands are excised the seeds implanted and deep X ray the any given. Primary carcinoma of the var na or recurrence after his terectomy is best t eated with hare class seed of the strength indicated implanted throughout the base and edges of the lesion

The autho's classified carcinoma of the cervir according to the grouping of Schmitz In Group I the results of surgery and irradiation were equally good whe eas in all others irradiation was definitely superior not only as a palli tive but a curative measure The more embryonal the lesson the more read is a esponded a irradiation the greater the mal gnan y the greate the tendency to early metastasis In Type I 2 400 mgm hrs were given

intracetyically. Type II being treated in practically the same manner. The carcinoma healed locally in no per cent of the cases In Group IV only the exceptional cases received any irradiation. In car comma of the cervical stump so to roo mem of radium were inserted into the canal for 18 to 24 hours Deep & ray therapy was employed in all cases of cerucal carcinomata when there was any hone of ultimate cure

Carcinoma of the hody of the uterus was treated by nambs eterectomy and bilateral salpings combor ectoms unless operation was contra indicated. In the latter instance a 500 mc his were given and the dose tenested in two weeks. The Clark test

was made every three weeks thereafter

Carcinoma of the ovary is essentially surgical Deen X ray therapy was employed routinely after operation. Usually the reaction to a docume of t. on morn hts of radium was not severe and subsided upon the removal of the radium. Nausea womiting pelvic pain and slight elevation of temperature sere not uncommon Recto and vesico vaginal fistulæ rarely occur

indeed irradiation tends to prevent them. Post mortem findings revealed no death following the

treatment of benign conditions

In carcinoma of the urethra the meatus is fre quently destroyed the vesicovaginal septum and not infrequently the ureteral orifices being involved Hydro ureter hydronephrosis and extensive intra peritoneal extensions are not uncommon in healed cases in which the cervit vagina and parametrium are involved

An extensive melanotic tumor of the vulva with wide nread metastases is described. The authors also describe a case of extensive pelvic infection treated by heavy irradiation in which no signs of a flare up followed treatment They question whether in the many cases treated by pelvic irradiation there may not be some with infection which do not show signs of exacerbation

The authors technique is accurately described A JAMES LARKIN M D younger and less experience I surgeons performed the operations. Other causes for recurrences such as postoperative pregnancy and delivery are placed in the background. Schum (G)

Muret M. Hamorrhages Following the Menopause (De hem trag es postel materiq es) G nt 1 bt 97 ft

The author has observed 312 cares of postcimateries harmorthage during the last twentyeight years. He concludes that every such harmor rhae en matter how shight warrants a complete go ecological extimination bops; or curettage and histological extimination by a complete and stributed to local stasts consequent upon an extinction stributed to local stasts consequent upon an extra citat path logical con linon but should always be the stributed to local stasts consequent upon an extra citat path logical con linon but should always be the diagnosis of extraore call, and the stributed the diagnosis of extraore call, so becomes 1-st and less frequent.

with integrand was seen to be by far the most frequent cause cancer of the body of the uterus being present in 13 per cent of cases epitheliona of the cervix in 13 per cent of cases epitheliona of the cervix in 13 per cent with a total malignancy of 35 per cent. The eather most charge was the cancer as per cent in the base of the uterus of the cent that the sample body of the uterus of the cent that the sample body of the uterus use of currettage in diagnosts. In several cases of cancer of the body of the uterus absolutely the only 35 mytom as bleeding the fo lings at routine estimation being the control of the co

Uterox small grolap e was the cause in over 10 per cent of the cases. The bleeding xas frequently due to ulcerations dependent upon exposure and occasionally to traumatism caused by presente

(seventeen cases over 5 per cent)

Benga murous polyes of the erver ex-the cause in 8 per cent of the cases. Their removal should be followed by curettage ance they may occasion ly be the sea of main anancy. In or yer cent of the cases endometrial polyps, i e preent. These polyps occasionally simulated terrie polyps being pedunoul tel. In over 2 per c. nt the bleeding via scaused by crossons a derivated endometritis, bich could easily be cleared up by linear cauternation, and local application.

In 8 per cent a purulent serile endometrus ath occasional varying amounts of blood indicate fragility of the su face ves el l'urulent endometrus may easily be confu el ith acute 5000 rhora of which the author has see two per after

the menopause Seni, vagnitis s en in over 3 per cent of the cases is frequently associated with adhesi no and stenos 4 benefits the case that the case the states are the case that the case of the case of the possibility that hymorrha e aft r th menopause ny be case d by the thind that the case the case of the possibility that hymorrha e aft r th menopause ny be case d by the moment not in byter ctory.

should be done. Curettage is safe only when small tumors or fibromato is seem to be the cause.

In seven cases (over 2 per cent) ovarian cysts were present. The author is not sure but that the puthological changes were primarily endometri. I lie believes in histerectomy as a measure of safety

an all such cases

Five Caces of bleeding followed the artifact i menopause. The leaving of non absorbable suttres i a possibility in such cases. There were four cases of primary cartinoma of the usgins. Chancor do a considerable suttres and the user of the cases (of primary cartinoma of the usgins) and afternoss calculated to the user of the cases (of primary cases) and the sufficient from the product of currents about the sufficient proof of the value f this procedure as a disposite measure. Goode of C. Schatters, VLD.

Cotte M G Pe foration of the Ut rus During Diffration with Heg r Bougles (bur les p ri ti Ut r s rus au c de la dist i us but es d li ga) B N So d b t i d gr

ux by u es d H ga) B H So a bt 1d grt d I r so r x 1 75 Rupture of the uterus as a result of stretching th a Hegar dulator is not as rare an occurrence

as it is supposed to be. In the cases desce of the rupture vis due to stretching only and not to per lossition. The accudent is most apit to occur when the patient is a grid or young woman with a hypoplastic uterus and a long tight cervix or when the patient is at the menopaise and the uterus is broin tous. A dilatation of 18 to 70 degrees by the most of the control of the contr

GOOD CR C SCH TIER MD

ADNEXAL AND PERIUTERINE CONDITIONS

B row D N Primary Carci m of the Fallo plan Tube with a Rep rt of Three C ses A JOI TC 017 71

Of thee patients ath primary carcinoma of the full opian tubes tw died within a few months after

p rate n The th d as oper ted upon very ecently Fr m a study of these ca es the author offers the folloung conclusions

Though carenoma of the fallopian tub occurs of en to the een the ges of 40 and 50 sears 18 mu t b watched fo in all adults. Gro sly it frequently cannot be different it of from homose to flammitory less ones if the growth is reme ed intart. Rad c 1 extraption including all near by palabel 1 mpb gland, 1 the procedure recommended by mo t 5 me of 5 me to 6 m

Because f the sequency of occurrence of this growth e y case of infimm tory petric desais should rece e imm diate at a tion. The diagnoss can usually be citablished by hi tological e amina

cent of the card ac cases while their incidence in nternant women without cardiac conditions was 6 per cent Of 100 patients followed up from two months to three years after delivery seven were lead at the end of three months and seventy two (66 per cent) were found free from cardiac sumo toms when seen at the follow up clinic E L CORNELL M D

Nickel A C and Mussey R D The Relation of Focal Injection to Abortion Med I & P & 0 1 CXX 467

Abort on has been produced experimentally in guinea pigs by the intravenous injection of freshly isolated strains of green producing streptococci obtained from foci of infection in patients who had aborted When grown on artificial medium for a week these strains lost their specificity Control strains of green producing streptococci which were morphologically indistinguishable from the strains producing abortion and obtained from patients who had never aborted but who suffered from arthritis did not produce abortion in guinea ni s when in sected in I be manner and in equivalent doses The authors report three illustrative cases in

which oral foct of infection were considered of

etiological significance

Bea e F H and Clel pd J B Gas Infection of the Uterus with Jaund ce Following Abortion MdJA ila 97179

The authors report a typical case of bacillus welchu infection originating in the uterus following a presumably induced abortion. The nationt was a oman 42 years of age On October 6 1016 when she first annied for treatment she stated that her 1 st men es had begun fourteen days previously and were scanty. The uterus was found enlarged the os natulous and the cervix soft but a positive diag no is f pregnancy could not be made especially as the uterus was subinvoluted from the patient's con foreme t five years previously. The heart was seem nely no mal

A sedat ve mixture rest in bed and return for re exami 1 tion were recommended. On October s the findings were unchanged. The patient was then not see again until 6 30 am October 20 when he was b rously very ill with an accelerated pulse sub ormal temperature and sighing breath ing The abdomen wa found extremely tender but not rigid. The p e ous day she had felt ill and was unable to eat. During the night she experienced seve e abd m nal pain associated with vomiting an i a profuse atery diarrhora

D p te restorative measures she gren worse M ga e, diagn sed the condition as probably a ba ilus wel hi infection At opm the radial pulse as impercept ble the temperature subnormal and the skin old and clammy Morphine alleviated te das break a gradually extending deep evanosis in the intensely joundiced skin was noticed the e tremities and hps were almost black. All

nourishment was vomited. Mental electoris was retained The patient died at 8 am October 1

37I

T026 When the peritoneum was opened less than four hours after death there was no definite escape of gas The causts contained considerable blood stained fluid The omentum and small intestines were dis colored The uterus which was about 4/ in long and a in wide was crepitant to the touch greatly discolored and mottled and showed erosion around No perforation was found remains and blood clot were adherent to the fundus The adnexa were intensely congested and almost black from extravasated blood. The infiltration extended into the ligaments and adjacent pelvic walls. The liver presented a pasty appearance gas bubbles were not recognizable

Cultures made from swabbings taken from the uterus liver gall bladder spleen and heart showed large Gram positive gas forming anaerobic hacille In subcultures the bacillus welchn was identified Microscopic examination revealed considerable leucocytic infiltration of the uterine mucosa The liver showed little change despite the presence of

bacillus welchu at autopsy

PETER GRAPPAGNING M D

A. H. GLADDEN M. D.

Matarey R Cleland J B and Steeman J C Cas Infect one of the Urerus with Joundice Due to Bacillus Welchil Following Abortions

M d J A st al 1027 1 787 Since 1020 thirteen cases of abortion in most of which there was marked jaundice were admitted

to the Adelaide Hospital These cases were rapidly fatal In two the diagnosis of infection by bacillus welchu was made positively The infection 1 of facal origin and is introduced when criminal abortion is done. In one case the

bacillus welchu was recovered from the blood stream The authors advise the use of bacillus welchin antitoxin early and in large amounts

Heus During Pregnancy (Ueber Wilhelm T Sch ang schaftsileus) Z t olbl f Cli 1027 l v

Cases of ileus in pregnancs may be divided into those in which the uterus alone is responsible those in which the condition is caused by adhesions of the uterus to other organs and those in which it occurs as the result of a predisposition to it A case belonging to the second group was admitted to the Offenburg hospital with a diagnosis of appendicitis in pregnancy The patient was a 16-year-old para v with a history of sudden severe pain in the ri ht side followed by two bowel movements but no comiting Her last menstruation had occurred five months previously Examination revealed severe pain on pressure and definite board like rigidity of the abdominal wall on the right side extending nearly up to the umbilious

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Castano C A Three Cases of Pregnancy Afte Radiation for Uterine Bleeding Due to O arian Dysfunction (Tr s cas d g ses e aprè cu e thérapie d ns d's hémor gies o n p thiq s metropathie Iem r giq e) Gynec f obst 1927

Castano reports three cases of pregnancy after radium irradiation for so called metropathic fixmor rhage due possibly to persistence of the corpus luteum

The first patient 1 as a woman 27 years of age who gave a history of dysmenorrhea and metror rhagia for periods of fifteen twenty and thirty days These symptoms had persiste I for about ten years During that time the patient hal consulted a number of physicians and had had var ous types of treatment including four curettages all without results

Radium was applied in February and April 1022 Menstruation then became regular painless and of four days duration. In September 1022 the patient became pregnant and in May 1921 was delivered by dilatation and forceps of a 4 000-gm normal male child There was no postpartum hæmorrhage When the patient was seen again six months after delivery both she and the child

were doing well

The second patient v as a woman 26 years of a e who stated that for seven years her menstrual periods had continued for from fifteen to twenty days Gynecological examination was negative On May 22 1923 radium treatment was given This was followed by rather abundant hamorrhage which lasted about twelve days. A second appl cation of radium made on June 2 1923 was follo ed by amenorrhora for two months Ovarian substance and thirty intramuscular inject ons of enosol were given Menstruation then recurred f r two days each month

In December 1923 the patient became pregnant At examination in June 1924 a six months pre nancy was diagnosed. During the same month the patient had a profuse hamorrhage and was t ken to a maternity hospital The fetus was found to be dead and the uterus in a state of contraction attempt was made to dilate the uterus with a bag but as dilatation v as slow a vaginal casarean sec tion was performed. When the isthmus of the cervical portion of the uterus v as sect oned a true sclerosis was found. As the section did not give enough dilatation the fetus was finally extracted manually by morcellat on

The author attributes the death of the fetus in this case to syphilis in the mother which had re

ceived only insufficient treatment. The sclerosis of the cervix he attributes to the radium irradiation

The third case was that a woman 32 years of age who had had three normal children and when fi st seen by the author gave a history of headach s general malaise and pa nless metrorrhagia lasting ten days Vaginal examination was ne ative A diagnosis of syphilis was made and gray ol and thyro iodine were prescribed In 1918 thyro iodine and lipiodol were administered In June 1918 anti syphilis treatment was given In 1920 as the hamorrhages continued two applications of radium were given Menstruation then became regular and of the five day type The patient be came pre nant in January 1921 and was del vered at term of a normal child After delivery she abandone I the anti syphil's treatment. In Aurust she was jaundiced and had a fever of ar degrees C with chills. In September 1924 she became prenant aga n In March she was del vered of a dead fetus S EVATORE DI PALMA M D

Gorwin J. Herrick W. W. Valenti. M. and Wils n. J. M. Pregnancy and Hea t Disease J 05 1 & Cy cc 9 7 x 6 7

The difficulties in the diagnosis of card ac lesions are increased by premancy. In the cases of preg nant women the physician must be especially ale t to differentiate the real from the spurious. The signs of mitral stenosis are pa t cul rly variable and a e most often mi sed or misinterpreted. They are frequently present at one examinatio but absent at another

While mitral stenosis is theoretically the most serious heart lesion complicating pregnancy experience shows that in reality aort c insufficiency is attended by the greatest ri k Syphilti a rtiti or myocarditis does not s em to make the mme d ate maternal prognosis unfavo able women with these cond to as go through labor well

In a case of poor compensation no attempt should be m de to induce labor Medical measures should all avs be tried Cardiac decompensation plus forc

ible del very usually means death

The se ond stage of labor must be m de as short and easy as possible As a rule deli ery s effected satisfactorily by the induction of eth anasthesia which the patient with ca d ac condition tolerate well and the application of low forceps When d fficulties are p ese ted casarean sect n unde general or sp nal anasthesia may be advisable

The m real ty in 103 cases followed in the card ac clinic was 5 8 per cent and in ninety three others 64 per cent

Hypertension album nur a cedema and other so called toxic sympt ms w re n ted in 194 per

When casarean section becomes necessary the mel a in future pregnancies will be creatly lessened if

the operation is properly performed

When firm union is believed to have occurred in the uterine wall a repeated casarean section should not be performed in subsequent pregnancies unless there is a definite indication for it. If reneated section is decided upon it should be performed before the end of pregnancy

In the discussion of this report FLINT stated that the way to avoid doing a repeated casarean section is to avoid doing the first one the operation is unavoidable care must be taken to preserve asensis and not to tie the utenne sutures so firmly as to produce necrosis of the tissues In

Flint a opinion many of the scars become infected from accidental puncture of the decidua by the sutures Section should always be done early in labor before the patient becomes exhausted No attempt should be made to operate rapidly

POLAK believes that there is a place for casarean section in certain cases of placenta pravia and that a large number of women subjected to the operation for this condition will go through subse quent labors without complications if they are

watched in the bosoital

Dayis stated that he has no fear of repeated cesarean sections. One of his patients had seven and another had six In his opinion it is very risky to attempt to deliver await delivery or allow the patient to go on in labor when she has had a pre vious casarean section. He believes it is important for the surgeon who is to care for the case to be in attendance and that when a trial labor is allowed the delivery should be terminated artificially as soon as full dilatation is reached

E L CORVELL M D

LABOR AND ITS COMPLICATIONS

McNeile L G and Vruwink J Rectal Analgesia in Obstetrics Clf na & Best Med 1027 v1 64

Inhalation anasthetics do not satisfactorily reduce pain in normal labor. Moreover they are dangerous to the mother and child if they are given over a long period of time and their administration requires an expert anæsthetist and elaborate appa ratus Nitrouso ide has proved better than ether or chloroform Morphine-scopolamine is no longer generally

used Morphine magnesium sulphate given hyno dermically with the rectal instillation of an ether oil combination les ens the pain in over 75 per cent of the cases without danger to the mother or child

In the Gwathmey method a low soapsuds enema is given at the beginning of labor and repeated befo e the initial hypodermic injection if more than eight hours elapse after the first enema The morphine magnesium sulphate is given when the cervix is dilated about 3 or 4 cm and uterine contractions occur every three to five minutes It

is injected preferably in the buttocks. A hypodermic injection of magnesium sulphate alone is given one half hour later to prolong the effect of the mornhine If marked relief does not follow the ether instilla

tion is given after twenty minutes and the patient is told to retain it as long as possible. If the labor is not too far advanced this instillation may be reneated if it is expelled or if its effects wear off

The authors use nurous oxide during an ent t otoms and as the head passes over the perineum and ether for the renair of lacerations

Pantonon and sconolamine have no advantages over morphine-magnesium sulphate

Deally berbutume and used as a substitute for morphine magnesium sulphate has been found to relieve the pain of labor strengthen the contrac tions decrease the interval between the contrac tions and promote relaxation of the cervix with absolutely no effect upon the baby

MAGNES P UNSES M D

Phoneuf I. E. Cosacean Section Followed by Temporary Exteriorization of the Uterus the Portes Operation S re Gune & Oh t 1027 xlıv 788

Since cresarean section followed by temporary exteriorization of the uterus was first done by Portes in Paris and reported Match to 1024 a number of such operations have been performed in France

The Portes operation is one of necessity not of choice It should be limited to cales in which in fection is severe and abdominal delivery is indicated Portes adonting the advance in surgery represented by the tyo stage operation in cases of poor risks gave to the obstetrical patient the benefit of the greater safety it offered. The first store of the Portes operation is rapid resulting in but little shock In the second stage the uterus and adnexa are replaced in the pelvic cavity or if epsis is un controllable hysterectomy is performed extra abdominally according to the Porro technique

At first the obstetrical future of these patients was questioned but it has been proved that af er this operation a noman may conceive and carry the pregnancy to term Convelage as early as February 1925 knew of thirty two case in which the operation had been performed and the uterus returned to the cavity with but two deaths. In the cases of all of the women who recovered the menstrual function returned On July 5 1926 Couvelaire reported the case of a woman previously delivered by the Portes operation who succes, fully carried a pregnancy to term and was delivered by Portes by a classical exsarean section

In reviewing the reported cases it was found that in every instance in which the uterus was replaced the patient reco ered The uterus was left extrud ing for from filteen to eighty six days

The advantages of the Portes operation are A mortality rate which is very low especially since these are cases of frank infection

At operation performed immediately a gridiron incision was made. Purillent exudate and gangrene of the tip of the appendix were found. There was no perforation. The appendix was found to be as thic as the Ittle fineer Appendectomy was done and the abdominal wall closed around a small

drain

The operation was followed by suppuration in the abdominal wall. On the twelfth postoperative day a six months fetus was expelled with separation of the placenta Eleven days later when the patient was feeling quite well she suddenly had another attack of pain with gaseous distention of the at do men and borborygmus A diagnosis of ileus was

Operation revealed adhesion of the omentum to the right side of the uterus which was about the size of a fist and adherent to the abdominal wall and kinking of the ileum about so cm abo e the ileocæcal valve. The kinked portion of the ileum was also adherent to the uterus Blunt dissection of the adhesions was done and the greatly distended small intestine was punctured. The bleeding area left on the uterus after removal of the adhesions was tampon d and drainage was established through the pouch of Dou las

The pate at was discharged from the hospital

five weeks after the second operation The sleus w s c used by traction on the adherent small inte tire by the uterus which was undergoing

involution down into the pelvis The author b heves that in cases of ileus in prec nanci abdominal casarean section hould be done

before operation on the intestine II II SCREEDT (G)

Laza d E M Is Magne lum Sulphate Intra enously Warranted in Eclamps a? Clinical Results vs Espe imental E idence A J Ob! F-Gynce tax? 1 720

Chemical and pathological findings indicate that in therapeutic doses magnesium sulphate administered intravenously does not exert any deleterious action on the blood or produce any pathological change in the liver In active eclampsia it has a beneficial effect on the blood by reducing the toxemia Its dehydrating effect on the brain is demonstrated by the pathological report in this

No claim has been made that magnesium sul phate is in any sense a specific or that it gi es a successful result in all cases. In many cases cope cially those of the nephritic type the pregnancy must be terminated The author believes however that careful observation and the intravenous administration of magnesium sulphate will reduce the incidence of eclampsia further and reduce the mortality of the condition to less than 10 per cent in fact a reduction of the mortality to less than 5 per cent is not too much to expect

The effects of magnessum sulphate as determined by Lazard in blood chemistry tests do not bear out the findings of Standler In one case coming to autopsy no fat was found in the liver E L CORNELL M D

Cleland J B and J B Partial Rupture of the Uterus During Pregnancy with Patal Intraperitoneal Hæmorrhage Med J Australia 19 7 1 700

Cleland reports a case of partial rupture of the uterus during pregnancy in which the serous and outer coats were injured and a fatal hemorrhage from a subserous vein resulted. The case was com plicated further by hydramnios and partial placenta

There was no indication of disease of the utenne wall or infection of the mucosa Cleland attributes the rupture to overdistention and a sudden atta k

of somiting The diagnosis depends on recognition of the acute condition in the abdomen A H GLADPE MD

Rice F W An Analysis of the Results in 130 Pregnancles S bsequent to Caes rean Section in Ninety Sie Patients Am J Qb t & Gynce 927 XI 591

Of mnety-six women with 130 pregnancies fol lowing casarean section seventy six had minety two repeated sections twenty were delivered vaginally at term in thirty pregnancies four had two delivenes one had six del veries two had premature deliveries besides repeated sections seven had spontaneous

miscarnages and two had and ced abortions At the time of the repeated section the condition of the scar and the presence of adhe ions were noted There was only one case of rupture that of a patient who had an infection following the pri mary section. In three cases small are s of thin ning were noted. These were cases in which infec-

tion was present at the time of the previous d livery Of the twenty primary sections done in the cases of women who later we e delvered vagi ally thirty times six were done on women ho had had previous vaginal deliveries. In three cases the p imary section was done becau e of placenta pravia in one case because of malpresentation in one because of a large baby and in one because

of contracted pelvis

In the cases of twenty mne patients delivered vaginally there was one stillbuth and no maternal mortality. In the cases of patients who had rep ated sections there were three stillbirths an infantile mortality of 34 per cent There were three maternal deaths in the eighty seven cases operated upon The first death was due to pentonitis following rupture of the abdominal wound the second to pneumonia followed by empyema one month after the section and the third to rupture of the uterus and shock

In Rice's opinion the number of casarean sec t one could be greatly reduced by more frequent observation of nomen during pregnancy and more frequent trial labor in doubtful cases f modera ely

contracted pelvis

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Spencer II R Adenoma of the Suprarenal

In the cour e of routine examination of the viscera at autopsy solitary more or less circum cribed soft relowshor reddish tumor masses are occi ion ally found in or arising from the cortex of the supersenal

"The circumstraption of these misses together with their at you? and and enomation structure serves to indext their ecoplastic character and to place them in the group of bering alandular turns or adenomats. Embricologically, the cortex of the factor in september in origin arising as a series of buds from the cerbonic publishing covering the medial upper surface of the cephalic third of the

helynach found three cases of suprarend ade noma in 1 500 autopsies and 5pencer reports three cases found in 1 100 autop ies at the University of Maryla 1 Host tal

In a humber of cases of cottical sugrarenal tumors I ecocity in sexual development or the acqui ition of opposite secondary sex characteristics has been report d WILLIAU C SO MD

Smith R M. Bilate al Melanotic Growth of the Supraren 1Gl nd Jl d J. tust al. 19 7 1 683

A man of 64 years entered the hospital with a history of severe abdominal pun in the remot of the umbli cus persistent tom ting and a loss of 4 lb in yeight in the period of a month. A definite diagnost was never made. Mer a month a of ser vation the natient deed.

When the abdom n vas opened at autopsy a large quantity of very purulent and malodorous fluid was found. The all of the upper half of the small t te tin as studded with numerous black masses v rvi g in size from 06 to 174 cm. The mesenteric glands were enlarged and showed a blus h black discoloration Through one of the large ini strated areas in the bowel wall a small perfora ti n had oc ur e i but the r st of these areas were quite brm There were two intus uscept on in the small bo I The stomach duodenum tleum and large intestin appeared normal. The h er was not enlarged but was slightly tougher than usual When it was sectioned no secondary depo its could be foun i The spleen was enlarged and blus b black On ea I sife in the supraren il region attach d to th kid ev but quite separate from it was a blinish b! k soft tum r 4 in in d ameter This was readily h ll d ut On sect on it was found to be full of black de integrated material No secondary denosits were found The capsules pecked off real in

The lungs were quite crepitant and the heart was normal neither showed any metastases. The me dia tinal glands brain and skull were also apparently normal. The eye chambers were not opened as there had been no eye as mutoms.

Duling who reported on the sections concluded that the growth in the ludicy region was a melano sarroma probably originating in the adresal. He stated that the lymph glands from the mesentery contained abundant sectondary deposits. The I in phoid tissue of the bowel and spicen exhibited a remarkable change there were few satroma cells but the original invaders had disintegrated leaving there deposits of melanin in the invaded origins.

This case is of particular interest because of (1) the ratify of in lanoite malignant grow lab parts in lark in the adrenal (2) the balacean currence of the tunor (1) the because routine course, or other condary growth in never lab of the small interest to the state of the small interest to the state of the small interest to the state of the small interest of the perfect and introduced into of the smaller and of the small interest of the perfect and through one of the masses in the inte time which caused gentlomits and thereby hastened death

M URICE MELIZER M D

Bra sch W F and Catheart E P Clinical Data and Prognosis in Cases of Chronic Pyelone phritis J Am M Ass 19 7 Yexvu 63

As yet no specific cure has been discovered for chronic pelophytus. A brief clinical review was male of 2 040 patients observed at the Mayo Clinic in the period from January 1 1910 to January 1 926. Two hundred and fifty-one of the group who had been treated for from ten to fifteen years were studied.

Attention is called to the difficulties occasionally observed in differentiating the cysitus resulting from chronic y edonephritis and that accompanying renal tuberculous. A stone forming it indees, which is apparently secon fary to chronic renal infection is sometimen observed. Such a condition was noted in sometimes observed. Such a condition was noted in sometimes observed. Such a condition was noted in whether it is easy. The question occasionally arises whether it is a foreign to the sum all stone when the interest is a foreign of the small stone when the thronic polarieship sufficient removal of the small stone when the thronic polarieship.

The de ormity of the outline of the pelvis and unter in chin a pyelonephinia is usually typical being characterized by marked dilatation of the unter with sight if any chiatation of the pelvis and usually not listation in the calices. The typical unit is a prevarious of multiple steam of the pelvis the appearance of multiple steam of contribution in the appearance of multiple steam of contribution in

2 A simple and easily carried out technique Minimal shock and risk

4 Conservation of the uterus and adnexa with preservation of the function of reproduction

s Minimal peritoneal reaction after replacement of the pelvic organs in the abdominal cavity

6 The possibility when sepsis is uncontrollable of removing the uterus extra abdominally at a time when the patient is out of shock

Oberline C and June G Paragangi oma of the Ad enal with Arterial Hypertension Com ments on Obstetrical Shock (Paraganghome de la urrenale ec hype tens n arten lle a p opo d ch obstetri al) Bull S c d bst t de gy e

PETER GRAPPACYING M D

de Pa 1027 X 279 The authors report a case in which death occurred two hours after delivery followin si as of shock

The blood pressure previous to term had been as high as 250/190 and was never lower than 190/120 The urine contained albumin and casts and there was moderate cedema. Autopsy revealed marked dilatation of the heart and a large paragan homa

of the right adrenal Striking characteristics of this tumor were the specialization and apparent functional capacity of

the tumor cells

From a study of the hterature it appears that large paraganglomata of the adrenal are nearly always associated with arterial hypertension. The authors believe that this is an association of cause and effect. In the case reported there were no other vascular I sions

The authors report this case as a lditional evi dence that the lesions constant in essential h pertension are not the result of the hyperten on

GOODRICH C. SCHALFDER M.D.

autogenous and in the others they were prepared

Probably one third of these patients will recover another third will be marked! benefited and the remaining third will not be helped by the treatment This conclusion has been largely borne out by a sur

ver of the cases reviewed

Although it might be interred that the duease is probably self huming in many cases nevertheless the various forms of treatment have undoubtedly succeeded in increasu. The precentage of patients cured and improved. In reviewing the types of treatment emploied it is difficult to draw any exact conclusions since in most cases various method of textiment we combined. The percentage of cures following several methods of freatment was apparently about the same. It is evident however that patients in whom four directions revergement and the control of the contr

When the infection has permented the entire renal substance and the cicarrical chain es in the urretral and pelvic walls are advanced it is apparent that the difficult es of recovery are greatly increased. It seems logical to assume that unnary infection would be best eradicated if in the early stages all focu of infection ercretenoved if the infection and the result in cart trait chain es in the urter and pelvis were treated by means of lava e and po sibly by didta to extreme the contract of the contract contract the contract contract contract contract contract contract medication is as yet an which offers permanent recovery from chronic renal infection. The treatment must be persistent in order to eliumate the infection as completely as possible

Wollstein M. Renal Neoplasm in Young Chill den A h P th Lab M d 1927 m

Woll tein reports eighteen primary renal neo plasms in children between the a es of 3½ months and 6 years. In thirteen cases the tumor was an adenosarcoma in three a leiomyo adenosarcoma in 0 e a rhabdomio adenosarcoma and in one a spindle cell sarcoma.

Emb sonal renal neoplasms occurring in soung children are a heterogenous group. They are closely related but not identical histologically or histoseretically.

In all of the cases reported the kidney was sharply limited from the neoplasm by a capsule of compressed rensi it sue. While the growth may invade the Lidney substance the fully developed kidn y elements take no furt in the ew growth which I entirely embryond in type

The more solid tumors are more easily removed than the others because they remain within their

unbroken c p ute

Four of the p tients who survived operation ten months of longer had the firm type of tumor One patient survi ed to adult life and one is well six are after the operation

WHILE M J CARSON NI D

Nicholson D Fever with Renal Carcinoma A ch

Archolson reports a case of almost continuous fever (roo to not degrees F) with internitent addominal pain and general weakness in a vonam aged 38 years which it may undragosed for eleven months in smatter for careful examination. Reentgen my examination for the lung and a sudering of the lung the same seven months later (e) there months dare the onset of the illness) annular of the lung and a diagnosis of his tumor probably Hod kins disease was made. Ever had then been pre ent almost continuously for tarker months.

Autopsy showed a renal carcinoma of the lower

suprarenal and pleen liver and lungs

On microscopic examination some parts of the tumor were found to be made up of small cells which tended to form alveol whereas other parts were made up of large clear cells which formed papillar or irrevular elongated acmi some of which showed by alme degeneration

WILLIAM J CARSON M D

Jeanbrau E. Castic Diatation of the Ureter Strangulated in the Meatus Following Lakor Resection of the Prolapsed Tissue Cu e (D la tat a stone de lu têre et an le u meat tat a ch 2 ne eccouch section di spocke prolable ga rison) J & al med et ch r 1927 2201 25

A woman 32 years of age consulted Jeanbrau in 1923 because of pain at the end of urnation which region of the right kidney. There was no history of noctura

Examination revealed byuria. The kidneys were

Examination revenued pyrins 1 he kidness were not poliphie for tender. The bladder capacity was our poliphie for certain Francisco as found over the preformer of the preformer of the contraction of the certain former of the preformer of the certain former of the c

The patient was given urnary antisepties and was not seen again by Jeanbrau until August 1 1295 when he was called because of a tumor which was prolapsed from th urnary meatus and was increasing in size from hour to hour

During the interval between the two consults trons the patter had become pregnant but give they gura she had gotten along very well. In gotte the go ura she had gotten along very well. In gotte the go ura she had gotten along very well are gotten to the consequence of the fetal head. At one due to the engagement of the fetal head. At one due to the engagement of the fetal head. At one had to the consequence of the fetal head. At one had to the consequence of the fetal head. At one had to the consequence of the fetal head. At one had to the consequence of the fetal head and very large of the had to the considerable for the present the fetal head.

most instances however the irregular dilatation is to be regarded as the result of chronic inflammation and cicatrization of the ureteral wall rather than of obstruction alone The greatest dilatation is usually observed in the upper third of the ureter. It fre quently stons abruptly at the areteropelyic juncture leaving the pelvis and calyces intact. It might be inferred that there is some anatomical factor in the nerve supply or musculature at the ureteropelvic juncture which limits the dilatation entirely to the

urelet With the ureteropelvic juncture dilated to the extent of the ureter below the pelvis may be but slightly dilate i an I the calves normal. The pelvis and calyces are seldom dilated as in Intermittent hydronephro is frequently the calves show cica tricial changes with resulting reduction in their size and irregularity of their outline Occasionally there is evidence of necrosis in the outline of the calvees which may be confused with renal tuberculosis Although dilatation in the ureter is largely the result of inflammatory changes in the walls of the ureter and pelvis ureterectas a extending uniformly un ward from the ureterovesical juncture may result from an area of constriction E on though the catl eter meets no obstruction it is concernable that the mucosa may have been so ordematous at this point as temporarily to occlude the lumen of the ureter and induce ureterectasis. If the cicatricial tissue is so dense that dilatation is diff ult the advisal il ty of cutting the intramural portion of the ureter might be considered

Gross hamaturia accompanying thron c pyelo penhritis it ually originates in the areas of eroded eleatricial mucosa or in granulomata in the renal pelvis or ureter As a rule the bleeding is moderate but it may become serious Although it can be con trolled by lavage of the privis with solutions of silver nitrate nephrectomy may be necessary in rare

instances

The renal funct on usually remains normal even after many years of infection. If there is a reduction in function it occurs either after the infection has existed for many yea s or as a sequel to some acute complication Becau e of the dilatation of the ureter the excretion of the dye may be delayed and give an erroneous impre sion of function A more accurate estimate of function can usual v be made by retention tests and in the routine ex minition of chronic pyelonephritis the estimation of the blood urea is relied upon largels. The clinical symptoms caused by renal insufficiency with chi onic pyelo nephritis are those that usually accompany inter stitual nephritis An increase in the blood pressure retinal changes or reduction in the urinary output such as occur with glomerular nephritis are usually not observed except as terminal complications When there is renal in ufficiency the patient's condi tion may remain stationary for many years under a proper regimen such as rest external application of heat thorough elimination regulation of habits of livi g and restriction of protein

It is generally recognized that there must be a primary focus of infection in most cases of chronic pyelonephritis and in every case roentgenograms of the teeth should be made the tonsils should be in vestigated the secretion from the prostate and cervis

examined and intestinal stasis excluded For the treatment of chrom pyelonephniis van ous procedures have been advocated but not one has proved specifically successful Amon the encocedures are the removal of foct of infection lavage of the renal pelvis and bladder dilatation of the ureter internal antiseptic medication intravenous medication and the use of vaccines. All of the a measures have proved palliative rather than cura

tive Lavage of the renal pelvis and bladder rith ann

septic solutions is justified as it undoubtedly results in temporary improvement

When cicatricial changes in the wreter inte fere with renal drainage dilatation of the prefer by mea a of bulbous sounds is indicated. During the last few years the authors have been dilating t e preter as part of the routine treatment of chronic pielo nephritis but so far as they are able to ascer an there has been no greater degree of immediate in provement in this group than in the others. The question may well be raised whether actu I stricture of the ureter can be permanently releved by this

method Although it is possible that inte nal unnary antisentics may evert some influence on acute and sub acute pyelonephriti the authors state that it is difficult to see ho any lrug can reach the infected interstit al tissues in ch onic prelonephritis. Amon been used in recent years in the treatment of infec tions of the unrary tract are methenamine acri flavine and heavleso cinol Methenamine has proved to be of great value in the treatment of chronic pyelonephritis Hexy fresorcinol has recently b en recomm niled by optimistic ob er ers as effica cious in overcoming chronic pyelo ephnts. This drug was given in a series of forty cases of chronic pyelonephritis. While the symptoms decreased a d the amount of pus in the urine vas reduced in several cases in no case was the urine found negative either

microscopically or by culture Of the drugs re ommended for intraven us use to overcome un arv infecti n mercutochrome 220 soluble acrifla ane arsphenamine and methena mine have been employed most widely. These are of undoubted value in the treatment of scute and subacut pyelonephritis but have not been effective in eradicating ch on infections

From several years use of accines the authors have gained the impress on that v cames h ve lit.le r no effect They have therefore la gely d scarded them Howeve , hile the pr portion of cures fol low ng their use is n greater than the average & number of patients reported that their symptoms disappeared within a short time following the var c ne treatment. In most cases the vaccines we e used it in seven cales of urinary incontinence Stockel employed it with success in a case in which his on noperation failed. Saturing of the cervix of the uterus between the two leaves of the levatores and and suspension of the uterus are other possibilities.

Operations for retention of urine not due to mechanical obstruction are of two types those in which muscles are dilated or sectione! and those in which the bladder is either placated or the crear are sutured to it. Forceful dilatation of the spinicite is sometimes of value. Spinicierotomy of the posterior lip of the neck, of the bladder may be performed through a median cystotomy wound or through the urethra. The urethra may be opened up through a transverse permeal incrision and sectioned. The nethod most favored at the present tunes in the world the urethral cystocope and a world with the control of the united and the control of the urethral cystocope and a

Trigonotomy may occasionally be indicated for flatting trigon or large interuretral bar Plenston of the bladder wall to lessen the capacity of the bladder to be credited to Robert who had not three times with satisfactory results. The approach have be made retry entitionally by the lypogastir route or through the permeum. The former route is the more often possible. A fold is made in the wife

of the bladder

Suture of the rects into the blatder is another procedure to be credited to Rochet Rochet and so as three times. Through a Pfannenstiel must be suffered from the rect must be the public attachments of the strips evered and the strip brought down the sides of the bladder to the peck, as low as possible and somewhat posterior and suite of When this is done the bladder is suspended in a living muscular harmock. The funduis is not sutured to the musicles

Very few ope ations have been performed on the nerves to the bladder and no influence on the motor mechanism has been noted folloring such surgery Micrael L Maso M.D.

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GENITAL ORGANS

Thomson Walke Sir J Fallu es of Prostatec tomy L t 19 7 1000

As that the mediate mortality following restrections has been a reduced by standardization of the operative at letchinque and proper present each postoperative can postoperative can postoperative can postoperative can be useful to the present of the districtions groupla which often make the pivent as wincomiportable as before the operat a unmong these conditions are the various of Cistitis vesu ultits of a contract of the obstruction of the obstruction of the obstruction of the contract of the obstruction of the obs

In the author's opinion the chief causes of these is the are sepsis and obstruction. Latients who

come to the surgeon with marked infection of the uninary tract must have this sepas cleared up before operation. Budly infected bladders should be washed out through a suprapuber tube and a urethral cather. For the nedance of sepas after operation it is necessary and posture the surface of the nedance of sepas after operation it is necessary and produced produced in the nedal notates of the nedal posture and produced to the nedal notate gland objects and centers of sepas. It is important to provide adequate draining for the prostatic cavity this is best done by means of a wrethral catherer Dally irrigations through the urethral catherer and up through the suprapulue tube are necessary to prevent infection. The author does not practice routine viscetomy to prevent epidely must as helieves it unnecessary it careful attention is paid.

to the avoidance of sensis Obstructions following prostatectomy are of two main types (1) fibrous contractures or valvular folds at the internal mentus or in the prostatic bed and (2) new growths in the wall of the prostatic bed. either a recurrence of simple enlargement of the pro tate or a mahanant growth. In cases of the first type the obstruction may vary from slight difficulty in urination to complete retention and may be due to a variety of folds and flaps of mucous membrane or nodules of prostatic tissue either overhanging the internal meatus or situated in its immediate neighborhood. In some cases the author found the internal meatus practically obliterated by a hard ring of fibrous contraction. In mild cases of such contractures the treatment consists of dilatation or the punch operation. In more severe cases, the suprapulic scar must be di se ted out the bladder mobilized and freely opened and the obstruction HENRY L SANFORD AT D widely removed

MISCELLANEOUS

Marselos V A New Method for Testing the Cure of Gonorcheea (Nos cau traitem nt dépr uve d la blen o hagie) J d l' méd l' h 1927 x 1 37

As a test for the cure of generative author proposes the combined use of diathermy locally and the intradermal injection of the patients own bloo! His technique is as follows

In the morning an injection of i ccm of blood is made at two points on the dorsum of the forearm at some distance from ea h othe

- 2 From ten to twelve hours after the injection from twenty five to thirty minutes of diathermy treatment is given at as high a temperature as can
- be tolerated
 3 Costus and indulgence in wine or beer
 4 The part day death are wine or beer
 - The next day diathermy
 On the third day the injection and diathermy
- treatment are repeated
 6 On the fourth day a further diathermy treat
- 7 On the fifth day the injection and diathermy are repeated

From July 21 to 28 the puerpenum was fairly normal Fever and urmary retention then de veloned an I the nationt's family physician noted a small mass at the meatus. When this mass was pushed back with a sound a large quantity of urine was expelled Two days later the ma sire appeared It was then the size of a nut and was not completely reduceat le During the next twenty four hours it gren to the size of a pear It was at this time that the author was summoned

Examination revealed a mass the size of a turker egg protruding from the urethral orifice. It was of a black and purple color and seemed to be fille! with fluid On vaginal examination a cord running downwar I and backwa d from the tumor a felt This as thought to be the u cter The right kidney and ureter were tender \ diagno is of prolapsed and strangulated ureterocele v as made

Because of the intende pain the decis on was made to resect the mass at the patient's home rather than to take the patient to a hospital where an intravesical re ect on of the ureterocele coul I be done Under spinal anæsthesia an i after careful cl ansing of the external genitalia the mis vas nunctured with a needle 1 quantity of bloody urine was evacuated. The sac which was seen t be gangrenous was then cut off at the urinary one e and the stump replaced in the bladder There was no hamorrhag Vesical lavage was done with silver nitrate and a retention catheter was untroduced

After the operat on there v as a moderate hama turia for from ten days to two weeks and a pyelitis developed on the left side. The latter cleated up under treatment with the usual urinary antisentics Four weeks after the operation the pat ent was able

to walk about

A cysto copi examination in October 1026 showed the right ureter projecting into the bladd r as a small stump resembling in appearance a miniature uterine cervix. This corresponded to the pedicle of the prolapsed ureterocele. The patient ould not permit the author to make a p elogram

leanbrau states that when a cystic dilatation is recogni ed at the time of cystoscopy it should be treated at once throu h the operating cystoscore The condition is due to a congenital narrowners of the ureteral orth e In a case of strangulated pro lapse the best procedure is resection through a suprapubic incision with careful suture of the ve cal and ureteral mucosa Despite the good re ult obtained in the case here reported Jeanbrau does not recommend the procedu e used MICHAEL L M SO MD

BLADDER URETHRA AND PENIS

Richer Surgery of the Ves cal Mu cle (Chiru gr d m cl ts cal) Jd 1 mid i hr 97 E 11 4

This article : a review of the surg cal procedures applicable to the musculature of the umary bladd t

The author first discusses the morphology of the bladder muscles and calls attention to the fact that the old concept on of a rather intimate relationship of the three coats of the bladder the tru one and the sphincters has been superseded by the view that the trigone is independent of the corner but only morphologically but also embryolomically

The sphincter of the bladder seems to he made up of the ares of fibers one comine from the body of the bladder and the other from the trigone The trigone is a definite entity in continuity with the longitudinal fibers of the westers and superimposed

upon the muscular coat of the bladder

The innervat on of the trigone and the cornus is not the same. It seems p obable that the openia of the urethral orifice during in cturit on is not inhibitory but active depending on contraction of

the to one mus les In ontinence is more common in females thin in males re ulting f equently from ob tetrical trauma. It has be a treated by a number of different on ra tive procedu es U ethropi sties of various types have ben employed. The inject on of pa fin int the it sues under the urethra may en e a good resu t but as the effect is only temporary this procedure is not to be recommended. Anatomical sutu e of the torn sphin ter is almost impos ble. Plication of the urethra longitudinally o transversely is some times successful. Gersuny has tried twisting the urethra and Albarran has c mbined to sion plca tion and ele ation of the urethra

Muscul plasties have been devised to replace the torn sphincter by the use of the pyramidalis rectu abdominis levator am gluteus maximus and other muscles One of the m st satisfactors pro ed es of this type is the classical Goebell Stockel operation in which the py amidalis muscles or if the e are not present two strips of the rects are brought down and sutured under th urethra Frangenhe ms opera tion in which only a single mu cle strip is bou ht do n and sutured to the pubic ramus under the

urethra is allo employed

The Goehell Stockel operation has been done in numerous cases The author has collected the reports of fo ty seven in 8 per cent f which it re u'ted ir a ure In six of these cases it failed and in one was follo ed by death. The indicati s w re up w to the sphincter following a difficult labor 'most ca es) in urv to the urethra during the extrac tion of a stone the removal of a cystic t mor from the anterior all of the vagi a ep spadias jira b fida and L tile s disease. The re hingue of the operation is de cribed n det la d the forty se en ca es are reviewed

The use f the levator an gluteus m v mus ad muscles has al given good re ults born surgeons ha e employ d fas sa I ta and the rou d ansfactory I gament but these ha e not pro ed

Supporting the neck of the bladde by turnin the uie us under it as in the Schauta Wertheim peration s a very valuable procedu e Wertheim

SURGERY OF THE BONES. JOINTS. MUSCLES. TENDONS

CONDITIONS OF THE BONES IGINTS MUSCLES TENDONS ETC

Brockman F P Some Observations on the Bone Changes in Renal Rickets B ! J S rg 1027 611

In renal rickets the changes occur principally in the region of the growth disk. The epiphysis is not markedly changed from the normal The dianhysis is slightly widened but not to the extent seen in noLets The diaphysis in connection with the growth disk is not cupped in the same way as in rickets but there is an irregular area of bone formation The non-ossified area between the emphysis and diaphysis show a marked increase in depth. There is no evident osteonorosis. The shalts of the long bones are not affected as in rickets there being no increase of the normal curses with supporting struts of periosteal bone

In examination of the Lidneys in one of the cases reviewed congenital cystic disease was found. His tological examination revealed thronic interstitial nephritis E amination of the affected bones showed lossened displaced eniphyses. The hones were very soft being easily split with a scalpel. The periosteum was not thickened The cortex was thin and be tween the epiphysis and diaphysis there was an area of harmorrhage. The fat content of the medulla was greatly increased

In renal rickets the shaft of the bones are straight and deformities are due not to an increase of the normal curves such as occurs in rickets but to sen aration and displacement of the epiphy ses by muscle

pull which is seen most commonly at the lower ends of the femur tibia radius and ulna

Primarily because of the danger of uramia but also because of the tendency of the deformities to recur it is not advisable to correct these deformities by osteotomy

The absorbed bone becomes replaced by fibrous DANIEL II LEVINTUAL M.D. 11ssue

Brome R S Infecti us Ostcomvelitis Differen ti ! Diagn sis 1m J R ig 1 1927 x 1 5 3

In procenic osteomyelitis with the usual nathological manifes ations a diagnosis can usually be

made from the roentgenogram

When the condition enters the destructive stage followed by the proliferative stag and especially when it is accompanied by large and well-defined seque tra it probably will not be confused with syphilis or tuberculosis Syphilis is usually forma ti e and tuberculosis largely destructive and asso-ciated with bone atrophy. The chromic stage of osteomyelitis when the picture is that of a forma tr e process and there is no evidence of sequestration

or involuctum formation 1 likely to be confused with syphilis and the differentiation depends largely upon the hi tory and the laboratory findings berculosis of the shaft although rare will probably be differentiated only by other means than the roentren ray alone

Ewing a tumor or endothelioms of hone is most likely to be confused with osteomyelitis as the usual entena of malignancy are not to be seen (Codman) Dependence must be placed chiefly upon the his tors. The early stage of penosteal sarcoma cannot always be differentiated because occa ionally ny rexia pain and swelling may simulate the signs and symptoms of acute osteomyelitis

The occurrence of perpendicular striations is not a nathognomonic sign of mali nancy as such stria tions have been noted also in acute osteomyelitis

and syphilis

Of the dystrophies infantile scurvy will cause no difficulty if its early signs are sought for in the roentgenogram Bone cysts will be differentiated with a fair degree of accuracy if the sime of progrems inflammatory change are reco nized. In cases of osteomyelitis with a hamorrhagic content in the ramped area (abscess) of hone with no definite sequestrum due to attentuated bacterial infection the diamosis will sometimes be impossible and can be made only after operation by other means than the roentgen ray

Generaliz d fibrocystic esteries should not be so diff cult to differentiate from osteomyelitis but is more difficult to differentiate from syphilis

CHARLES H. HEACOCK, M.D.

Bird C E Sarcoma Complicating Paget a Disease of the Bone Report of Nine Cases Five with Pathological Ve ification A ch Surg 1927 XIV 1 82

Paget expressed the opinion that there is an intimate relationship between the disease which has come to bear his name and the formation of make nant tumors From the files of the Peter Bent Brigham Hospital the Boston City Hospital the Massachusetts General Hospital and the Hunting ton Memorial Hospital Bo ton the author has col le-ted five cases of I aget a disease in which as ven fied by pathological examination a sarcoma arose in bone involved by osteitis deformans. In all Bird reports nine cases

The incidence of sarcoma in Paget's disease is

about 1 in ro The malignant tumors in the cases reported were all fibrosarcomata with varying amounts of bone production and foreign body or tumor grant-cell reaction Eight of the patients were males The sarcoma arose in bone which was markedly affected

8 On the morning of the sixth day before un nation the prostate seminal vesicles and Cowper's glands are massaged

o The urine and urethral strippings are studied by culture of the sediment and sperm and by

stains
Marselos distinguishes the following three types
of reaction as indicated by the cellular content and
the presence or absence of genococci in the dis-

charge before and after the test

G occi		Phon lears	Lympho- yt	Sq mou
Type z		_		
Before test	0	Rare	Few	Present
After test	0	Rare	lew	Present
Type 2				
Before test	0	Rate	Few	Present
After test	Few	Good	Some	Present

Test 3
Before test I'ew Rare I'ew I're ent
After test Many Many Good Fresent
number

came pale complained of nausea and perspired freely A slight increase in the number of leucocytes was noted after the injection.

The method was checked against numerous commonly used tests simple examination of the dis

Very little general reaction was noted. One patient was slightly indisposed. Three patients be came pale and dizzy after the injection. Two be-

charge Motz method prostatic massage spem culture Clarksons method Mueller's method and Roucayrol is method Of these methods none but that of Roucayrol gave as high a percentage of positive results Victure L. Viscow Mr.

Nisio G Intermittent Hæmaturia of Tonsill r Origin (Emat n 1 term it nis di org e tons llar) A ch sol d l 1927 m 241

Niso reports the case of a woman of ab year who gave a history of frequent attacks of tondit in in childhood. During her first pregnancy albuma was found in the unne and increased progress why until the end of the pregnancy. Delivery was normal however and after delivery the albuming radically disappeared. Since then the past ent has had seven attacks of nephritis associated with attacks.

togstillits

The author concludes that there are forms of nephritis which follow pharyngeal infections such as agina and tossillitis and occur sometimes even when the pharyngeal inflammation is not notice. The harmorishape is not in opposition to the other signs of the kidney lesson such as albumn and casts in the urner. There is a tendency for an attack of nephritis to occur with each exacerbation of the pharyngeal infection of as the harmatium is the chief sign of the nephritis the condition may be missiken for tuberculous of the albumistic and the chief sign of the nephritis the condition is shown that the condition is a caused by when the albumistic and the nephritis is caused by such as the chief in the condition in the report of the tomostic of the tomostic of the phart of the condition o

The end result was full extension three quarters normal flevion and full abduction. The little finger was somewhat shorter than normal Microscopic examination showed the tumor to be an osteo-department. Heaving M. D. David, H. Levinila. W.D.

Lance and Sorrel A Study of Local and Gene al Platyspondylitis (Ltude sur les platyspondylies platy po dyl s loc l ées platyspo dyles gé é al i (es) B ll tml Soc at dech 10 7 lit 22

According to Putti and Perussa congental fiattening of the vertebral bodies (plat) spond/blut) ev to only in association vith maliformation of the posterior arch (spina hidida occulta or complete) Lance states that in his opin on platy pond/blut is more common than is generally bethe ed and i e has found it associated with congenital divi on of the vertebral bodies (somatochamb) bedies and general zed without any other pinal anomal). He reports beileg spit cases

Case i was that of a 15 year old gri with dorsal scol osis and generalized congenital richthyosis. The antiroposterious roentgenogram of the pine showed somatoschiss of the sixth and tenth dorsal verte him and the lateral roentgenogram showed platy.

spondyle of the fifth dorsal vertebra

Ca e a nas that of a 6-year old bow with an acute instolumbar deviation and a costal gibbus on the left side. The lateral roentgenogram show edifattering of the vertebral bodies of the minth and twelfth d rail vertebra and hypertrophy of the tenth dor all vertebra. The anteroposteror view showed soma vertebra. The anteroposteror view showed soma continuous of the minth enth eleventh and wellth his on the right side.

The third c se was that of a girl 11 ve rs of age with generalized bony dystrophies and multiple malformations from repe ted fractures congenital luxation of both radii and ongenit 1 scoloi. The anti-projecteror reentgenogram showed it elve ribs

n the left side and eleven on the right a question ble rudimentary ind on the ninth vertebra and plats pondylitis of the fourth sixth seventh and ninth vertebral bodies

Case 4 wa that of an 11 year-old girl vho had had sold in with a tripl curvature sin e infancy. The anteropo teri r roentgenogram reveale I platy spon dyle of the much tenth and eleventh dorsal vettebræ with ut any other mallormat on

Case 5 was that of a man aged 5x year who bad suffered from flatgue of the back since the age of 25. When he stood up for any length of time it as necessary for him to lean against a support. He wore a rigid belt to support the b ch. The left applia showed marked congenital elevation. The configencinar revealed platsyponds thus of the

s xth ighth ad math dorsal vertebre
In Case 6 that of a man a ed 38 years a diagnosis

of P its d ea e of the fifth lumbar vertebra had be n mad An abscess of the left flank developed The anteroposterior roentgenogram of the pine re

vealed scolosis toward the right side thirteen ribs on both sides fourteen dorsal vertebre union of the sixth and seventh vertebre and lack of a rib be tween the se enth and eighth verbebre. The lateral receiting an showed marked dorsal lyphons of the seventh to minth vertebre with plats spondy litts of the eighth dorsal vertebre.

Case 7 was that of a 26 months old box of slow development with open fontanelles congenial luta ton of both hips blateral congenial club loot and a dot olumbar gibbus. The roentgenogram showed generalized plats spondy hits without other spinal anomaly. The child was made to walk in a light callude Costs.

Case Swas that of agril 3,) cars old who had had a round back for a year a pronounced dor al lyphoss and a lumbar lordoss with prominence of the abdomen. The spine had an evaggerated S shape. When the patient was lying down or sus pended the curvature partially disappeared. The roentgenogram recuciled a general plast spondly this criticals. She work a removable on Stalled with difficults. She work a removable on Stalled with

Sorrel reports several cases of platyspondylitis which had been d agnosed as Potts disease. One of them was treated for the latter condition for many year.

WALTER C BURKET M D

Simpson W. M. and McIntosh C. A. Actinomy co is of the Verteb & (Actinomycotic Pott s D sease) Report of Four Cases A ch Si g 927 Mi 1 66

The authors state that actinomicous of bone is not so rare as is generally believed. They report four cases of vertebral actinomyco is with the aut p. s findings made in the Tathological Laboratory of the University of Michigan. All four cases came to autops with a chinical diagnosis of theoretic of the spine. In two of the cases the primary focus of the infection was in the lungs and in the two diverse apparently in the region of the appoint of the case of

Actinomycoss of the space produces, cottsed tros son of the vertebra with a certebral philegmon. It does not cause the angular deformity characteristic of Potts disea e but its relation to tuberculous is manifested in the development of purulent tracts manifested in the development of purulent tracts manifested in the development of purulent tracts must be difficultied to the produce of the prolument should be looked for by the suggestion who first drainst the actinomycotic abserts as

The rad cal surgical excis on of all in olved tissue offers the best hope of cure

ROBERT C LONERGAN M D

Davis G G Os Vesalianum Pedis Am J R ni

The os vesalianum pedis is the proximal and external part of the tuberosity of the fifth meta tarsal It appears when the lateral protuberance of the fifth metatarsal develops as a special center of It lagets dieve. Of the rire patients eight are known to be deal and one cannot be traced.

Ill Mend J.C. Central Streoms of Bone Is There a Lentral Fibroms or Fib osseroms and It w Lan It lie Differentiated from O tellis Fibross? J.C. Joul. 5, 107 In 217

Blood states that when he a pathodocial how can the not her confer earn he was defined by a shed he had be deer rection he all within the sill there he is not each the however, and lead to the shed he had so that the conference of an except within the shed he had start of the new had he had so the shed had so that when he had the shed had so the shed had so that he conference had the conference of the had so that he conference had

The problemmant central learns of time are costes at the seat the particulity men. In stin exercising out it fire particulity men. In the turner that the transport of the transport of the transport of the transport of the men. The men transport of the men.

for i splemen i sa e

The such of reports I are cases of hone turner. In the test and grown of certral real mant hone cyst was rush for a kan ompt, at he was mone has a room at he are me and the rest and the rest and the rest in the majority of the path kind a whole to ach the a welfum agent fifth the leaunt was so that it is a first he will be a retirum agent fifth the leaunt was so that it is a first he are the majority of the the leaunt was so that it is a first he are the majority of the the leaunt was so that it is a first he are the majority of the test he are the majority of the test had been as a first he are the majority of the test had been a first he are the majority of the test had been as a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the test had been a first he are the majority of the particular that he are the majority of the test had been a first he are the majority of the majo

The set in this was on of malignant of the only ast may with better the nin the shift and a live followed in The path of which a man it years of a chimutation was the chief tient led three years later but the cause of dight read no be

leatnest

In the thelease the coentern stam suggest has control tempor of the how regionals and the shall wither must and amplication as him Thermin so pit ture suggested the mathematicama and outsit fire. The pain it was him is cleared that the operation

the fourth case was displaced as correct the a kesection and be e tran plantation were lone. In 1916 seven years fire the operation the patient man will Reserve to M.D.

Eucca E: F periment 1 Studies of the Funct n #13 Regen ration of Muscle fascia (kieceche penmental 1 i e audia na razio e il fed m col n) the dest d sori m st 197 2199

The experimental studies here reported were per f rmed on 1984. I segment about a em squire was reen ved from the fasia and the w uni thea close? The animals were killed after ten two tw. thirty states in the animals were without the state of the state

It was foun it is it to differentiation of favoral in esting facts and anonerroril favora by an other one embryol et al and membrocal fatter to that allow of facts and another one embryol et al. and membrocal fatter to the content of the content

To the investing facels they take of the control take five the pility by me. O far until or in case it fill to use all wash, kerths or realizable in the anteriorite faces there control passes in the anteriorite faces there control passes in the control passes in the control passes with the pility of the about by all the pility of the interiority of the control passes which have that it enjoys to a firm gradually all of the methods all and structural characters is of second to an of structural characters is of second to an

There or ratine processinh in air that is incert, it shill crediby the last a robbe may where muscle it comes in the original way to the exist tends to take on its ordered instruction that the exist tends to take on its ordered instruction to the control of the

The ameriment I product a of a cale to m wie bernis has not been succe if I the Art attemnts have been m \ solut n I the con to at the favra ab ne sast sut ert to prot e this e It a th path general of which is still abuse ferrares I m that f r the product on of bern a its nevertary for them wheat stubers are! The are neur ti fascia a intimatel conne tel with mande fun to n ft t t lorports le m val t e molete l'e tu un lin iu n ses a de resse ta the fire and m umum he ght of the contract m and consequently I the with performed by the m wi The fun to nal yn rm between them sie and the apx neurots fanc i due t the fact that if in the b reason of it el to its and the p nis if partial inserts which it present to the mode filers beles to me at in a con tant much at tene a LTFIC WE

Fowler A. A. Case Showing Anat mical and
Eura tional Reproduction I a Metacarpol by
a B ne (raft B 1 J 3 g 9 6 5

The uth reports a case of a time I the first met carple hash has as tassel emplet by besaue it was an pected to be a seron. A thail gail rounded at the Lial end we fitted on un beat to create carpet at the praism is and first mounder sture. The praism is and first mounder sture. The praism is and first mounder sture. The praism is a first mounder sture. The praism is a first mounder sture and the same clumnated and formed a he d which fitted into the base of the praismap phalams.

The end result was full extension three quarters normal flexion and full at luction. The little finger was somewhat shorter than normal Microsconic examination showed the tumor to be an osteo DANIEL II LEVINTIAL M D chondroma

Lance and Sorrel A Study of Local and General Plate amondalitis (Finde sur les pi 1 spo dylies platyspondylies local des platyspondylies gé Cral 6e) Bull el mem Soc at d ch 1027 1 1 132

According to I utti and Perussia congenital flat tening of the vertebral bolics (platy spondy litis) exists only in a ociation with malformation of the posterior arch (spina bifida occulia or complete) I ance states that in his opinion platy spondy litt is more common than is contrally believed and he has found it associated with congenital d vi ion of the vertebral bodies (omato chis) without any other malf emation of the vertel ral body s and general ized without any other oinal anomals. He reports I riefly eight cases

Case 1 v as that of a 15 year-old girl with dor il senhous and generalized congenital ichthyosis. The artemosterior mentgenogram of the some showed somatoschisis of the sixth and tenth dorsal verte I'm and the lateral mentern gram showed plats

en nivle of the fifth dorsal vertebra

Case a was that of a 6 year old hos with an acute al esolumbar deviation and a c stal gubbus on the left side. The lateral coentgenouram showed flatten ing of the vertebral bodies of the moth and twelfth forsal vertebræ and hypertrophy of the tenth forsal The anteroposterior vie showed some toschi is of the ninth and twelfth dorsal vertel to and fu i n of the ninth tenth el venth and twelfth ribs on the right sid

The third ca e was that of a girl it verrs of age with gen ralize I bony dystrophies n i multiple malformat on from teneated fractures c necrital furati n i both radi and congenital scol os s. The ant I I tenor roentgen at m howel to else ribs n the left side and cleven in the night a que ti n at le ru hm nt re rib n the minth vertebra and plats pen hat s of the fourth sixth eventh and ninth ertelr lbe b s

Case a wa that of n raise r-old girl who had had scol si with a triple urvature sin e infan y Ti anteroposten r ro ntgenogram re eale ! claty pon dyle of th muth tenth and leventh lorsal vertebræ

with ut any ther malf rmation

Case 5 wa that of a man ag d 51 years who had suffere i from f tigue of the lack s n e the age f 2 When he too tuy (r any I ngth of time it was neces are for him t lean ag inst a support. He wore a ngri belt t support the lack" The left I is howed in ried c ngen t I elevation

ments a gram re ealed pl tyspondyl us f the ath ghth and munth dorsal vertebra

In (ase 6 that fa man seed gegeste a di gnos of I tis I cae I the fifth lumbar vertebra ba ! been m ? An abue s of the left flank devel ped. The arteroposterior roentgenogram of the pine re-

weeled scolosis toward the right side thirteen ribs on both sides fourteen dorsal vertebræ union of the sixth and seventh sertebrae and lack of a rib be tween the seventh and eighth verbebræ The lateral roentgenogram showed marked dorsal kunhosi of the seventh to minth vertebra with platisponds hus of the eighth dorsal vertebra

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cellulor I corset

Case 8 was that of a god 3 / Sears old who had had a round back for a year a pronounced dorsal Lyphosis and a lumbar lordosis with prominence of the abdomen The pine had an exaggerated S When the nationt was lying down or sus pended the curvature partially di appeared. The coentgenogram revealed a general plata spondalitis Recause of the curvatures the child walked with d ffeults. She were a removable cor et

Sorrel reports several cases of platyspandylitis which had been d agnosed as lott sid ea e One of them was treated for the latter condition for many vears

Warne C Brown M D

Simpson W. M. and McIntoth C. A. Actionna cosis of the Vertebrae (Actinom) otic Pott s Dis as) I eport of Four Cases 1 & S re 166

The authors state that actinom cost of bone i not so rare as is generally believed. They report four cales of vertebral actinomy cosis with the air top v findings made in the Lathological Laborators of the University of Michigan All four cases came to autopsy with a clinical diagnosis of tuberculo is of the pine In two of the ca es the primary focus of the infection vas in the lungs and in the tio others apparently in the region of the ap pendix The bone infection occurred as the result of direct extension

Actinomy cosis of the pine pro luces cortical ero on of the vertebræ with a vertebral phlegmon. It does not cause the angular deformity characteristic of lotts d ta e but its relation to tuberculous is manifested in the development of purplent tracts and sing e notably the proas abscess. Herce it must be differentiated from tuberculosis The ray fungus should be looked for by the surgeon who first it in the actinomycotic absce s

The radical surgical exci ion of all involved tissue offers the best hope of cure

R SIRT C LO ER IN MID

Davis G G Os Ve alianum Pedis Am J Roc t 278 1 927 X 3 55

The os vecalianum pedis is the proximal and external part of the tuberouts of the fifth meta tarsal It appears when the lateral protuberance of the fifth metatarsal develops as a pecual center of by Paget s d case Of the nine patients eight are known to be dead and one cannot be traced ROBERT C LOVERGAY M D

Bloodgood J C Central Sarcoma of Bone Is There a Central Fib oma or Fibrosarcoma and How Can It Be Differentiated from Osteltis Fibrosa? J Bo & Jot 1 Su f 927 ix 217

Bloodgood states that when in a pathological bone condition the roentgenogram shows a dennite bone shell the bone destruction is all within the shell there is no e idence in the roentgen picture or on calcution of any tumor formation outside the bone shell and exploratory incision reveals within the bone shell a mass of fibrous tissue which is dif ficult to distinguish from sarcoms in the gross and frozen section it is quite safe to conclude that the condition is osteitis fibrosa Conservative measures are therefore in order If there are numerous minute cysts of one large cost and if the nations is under o years of age this is still more positive evidence

that the lesson is benign The predominant central lesions of bone are osteitis I brosa an I the giant-cell tumor Next in decreasing order of frequency comes the metastatic tumor Chondroma myxoma and sarcoma devel oning in one or the other are not common tumors The multiple myeloma without evidence of other

bone involvement is rare

The author reports four cases of bone tumor In the first a diagno is of central malignant bone cyst was made and an amoutation was done. In 1026 ten years after the amoutation the patient was well and the majority of the pathologists who studied the

specimen agreed that the lesion was osteitis f brosa The second case was one of malignant osteogenic sarcoma with destruction in the shaft and a line of demarcation The patient was a man 77 years of age Amputation was done. The patient died three

years later but the cause of death could not be

In the third case the roentgenogram suggested a central tumor of the lov er epiphysis and the shait of the femur and amputation was done. The micro scopic picture suggested fibroma fibrosarcoma and The patient was living six years osteitis f brosa after the operation

The fourth case was diagnosed as osteitis fibrosa Resection and bone transplantation were lone In 1926 seven years after the operation the patient was well

Lucca E Experimental Studies of the Function and Regeneration of Muscle Fascia (R cerch sp nm nt i s ll fu e lla rice rasi sp rim nt i s ll fu e lla r d lle i sca musc lan) Chr d og lla rige rasi m / g26 x 99

The experimental studies here reported were per formed on dogs \segment about r cm square was removed from the fascia and the wound then closed The animals vere killed after ten twenty thirty sixty ninety and one hundred and twenty days

It was found that the differentiation of fascia into investing fascia and aponeurotic fascia is based a only on embryological and morphological facto but also on functional factors There is a great diffe ence in the function of the fascia of different muscl ; In the ca es of some muscles-the gastrocnemus for example-it was impossible to demonstrate a appreciable influence of the fascia on the mu ? function whereas in the cases of other mus le t fasc a had an aponeurotic character and was of gr static and dynamic importance

In the investin fascia the process of re ener took place rapidly by means of an undiffer ne cicatricial tissue and was thicker than normal s In the aponeurotic fascia, the re enerative re was brought about by a less rapid and less at formation of connective tissue which showed ency to assume gradually all of the moreh and structural characteristics of normal fa

The regenerative process in the anoneur is decide lly influenced by the function of th where muscle function is preserved or exthe fascia tends to take on its origina quickly in order to fulfill its function b muscle does not function the loss of sub?" fascia is replaced by an exuberant mast entiated cicatricial tissue. The diffe behavior of the elastic fibers in the r the fascia of functioning muscle are muscle is an obvious biological pro-

tional activity of the aponeurotic fa-The experimental production of muscle herma has not been succe attempts have been made A so timusts of the fascia alone is not a this coud tion the pathogenesi obscure Ferramm claims that C herma it is necessary for the mu-

The aponeurotic fascia is f with mus le function Its tot complete longitud nal incisio! the force and maximum he and con equently of the muscle The fun tional syr and the aponeurotic fascia fa cia by reason of its cl part al insertion which c fibers helps to maintain (

Fowler A A Case Functi nal Repr a Bone Gr ft B

The author repo i it vas suspected t rounded at the di denuded carpus muscle suture begun early eburnated and hase of the pr

In talipes equinus the peroneus longus! I tranplanted to the scaphood and the peroneus breast the cuboud in talipes afteror distribution of the the unitary control of the control of the cubous the unitary control of the cubous transport of the cubous control of the cubous transport of the transport of the cubous transport of the cubous transport to the cubous transport of the cubous transport of the transport of the cubous transport of the cubous transport of the secured by a marginals for all cases a very

In talpes varus a sik ligature is carried from the tibials anticus at the myotendinous line to the cu boil bone. As a result, the tibials anticus exerts an even tension on both sides of the foot.

As a substitute for the paralyzed peronen a silk sinew is placed from the middle of the gastroone mus to the external edge of the calcaneus. In talines valeus the peroneus is transplanted

antenority to replace the thinh anticus. The posticus is replaced by a silk sines from the middle of the gastronemus to the median surface of the calcaneus. When there is a weakness of the quadneeps the anterior half of the tensor muscles is transplanted and a silk sines suspended from the middle of the surfaces.

For the rehef of paraly is of the gluteal muscles the author has performed two operations. In one the erector spinar was lengthened with silk sinew and fixed to the lesser trochanter. In the other the latissimus don't from the sound side was substituted for the median and small glute of the paralyzed side. In both cases the result was most exatifum

Since the introduction of the use of parthemen into the already established method of employin silk tendons tendon transplantation has become a success with promise of new possibilities in parally as In 90 per cent of the cases the result is successful. The number says The operation is great addition to orthopedic surgery in general and many surgeons to orthopedic surgery in general and many surgeons have been supported by the properties of the surgery in general and many surgeons have educated point any operation in which mustel tension is to be established perhaps from a far datance. Rater V Fuxoro MD

Colt G II The Surgical T eatment of the De glo ed II nd B t I S g q 7 56

The auth r cites two cases of primary plastic operation in which there wa very se e e demodation of the h nd. In the first the denuded hand was embedded in the abdominant all and in the second embedded as the supposer of the thigh. In the second control of the second of the second

Del ez L and Christophe L The Results of Operati e and Non Operative T eatment of P tts olls ase in the Inflat (Réultats à tate m toum 1 de P tt che l afat pa les méthod glat t non a glant) J d k 9 6 vx 1 64

Of eight children with Potts disease who were not operated upon three died three became worse

with accentuation of the gibbus and cord symptoms and two progressed favorably. Of those op rated upon by the Alber method three progressed satis factorily and have developd no complications three are in good condution despite a cold abscess and one developed a second focus after an excellent cure of the first one. In only one of the cas a oper ated upon did the gibbus become worse. The detailed by orgen of twenty cases are given.

Potts disease in the child has a high mortality Albees operation rarely fails to arrest the development of the gibbus and reduce the period of treat

ment The operation 1 a very b min on In the cases reviewed a modification of the original Albee technique was used osteoperosteal grafts only 2 mm thick being raised with a chisel and placed in the split spinous processes. This obvivated eparation of the muscles from the processes which its always accompanied by considerable bleeding.

Arnest F DeConst VID

Mezzari A Subperiosteal Resection of the Spinous Processes in Consolidated Gibbus (Resezi in sottopen stea delle apofes pinose ne gbb consolidati) Chr d o ga i di m v meni 216 u 103

The author reports thirteen cases of subperiosteal resection of the spinous processes in consolidated gibbus and concludes that the operation is a harm less and valuable procedure. The results vary how ever according to the angle and site of the gibbus The less the deformity the better the cosmetic re sults. In cases of gibbus caused almost entirely by protrusion of the spinous processes radical correction is possible but when the gibbus is due chiefly to the angle formed by two segments of the spinal column as the result of destruction of the bodies of one or more vertebræ and is increased by protrusion of the spinous processes on the vertex it is possible only to round off the angle so that the deformity is changed into a round back. It is easier to preserve the skin over a round back than over a sharp point and the round back presents a better surface for supporting orthopedic apparatus

In some of the author's cases there were mucous bursæ over the projection processes and in one case a serious phlegmon resulted

The operation described gives better results in lumbar gibbus than in dorsal gibbus but it has long been known that dorsal kyphosis is more serious than lumbar kyphosis

All of the author's patients were adults in whom the development of the skeleton was complete. The operation is not indicated in the cases of young children

Even in cases of senious kyphosis the results were encouraging because a compensatory lordosis was established above and below the gibbus and the line of gravity was moved inward this contributing to the authority effect. Late examinations have shown that the operation does not injure the cord.

AUDREY G MORGAN M D

ossification. It is of interest anatomically because of its rarriy and has a medicolegal importance because its presence is apt to be confused with a fracture of the fifth metaboral.

the base of the fifth metatarsal

In making a diagno is the following pertinent facts regarding os vesalianum ped s should be borne

r The condition occurs during the period before complete union of the epiphysis

2 It is bilateral

3 The usual signs of fracture such as tenderness discoloration and swelling are not present

4 The line of cleavage between the accesso y area of calcification and the base of the fifth metatarsal is longitudinal and parallel with the long axis of the metatarsal bones

5 The adjacent surfaces of the two bodies are

smooth in outline

The author reports one case
CHARLES II HEACOCK M.D.

Muell r W Further Observations and Investigations of Typical Diseases of the Sesamoid Bones of the First Metatarsal (W tere Bobachtu gen und U tersuch gen ude typ schen E krank g dr Sesambeine des I M tat ralknoch as) Betr r kin Ch 70 cxxx u

Complaints due to pathological changes in the cases he reported previou ly the author adds three more. All of the patients were women between the ages of 18 and 30 years. A previous trainast could be excluded but in every case the pain began after some form of streamous exercise such as adapting

In the mentgenogram a d vision of the median seamond bone into two or more parts could be seen. Histological examination of the extripated bone demonstrated within it a definite necrosis which was not of the same type as the necrosis of knoehier or Perthes discase. There was no necrosis of the medializy tiss e and the necrosis of the bone tissue was not expendite the necrosis of the bone tissue was not expended to the necrosis of the bone tissue was not expended to the necrosis of the bone tissue was no except the necrosis of the medializy tissue and the necrosis of the bone tissue of a time to the necrosis of the

Histological study shows definitely that the two halves of the bone are not formed by different constitution centers. The transverse cleft results in the course of time from mechanical causes and to responds to the end of the so-called zone cell rearrangement. It is not a true fracture because there is no history of trayma and no evidence of re unera

In the more marked cases in which rest and protection cause no improvement the operative removal of both sesamoid bones is to be recom mended HARMS (Z)

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Todd A H The Possibilities of Operatin in Infantile Paralysis L c1 19 7 ccm 364. The purpose of this article is to indicate what

The purpose of this article is to indicate what expert orthopedic surgery can offer for certain types of cases of infantile paralysis

If the non-operative treatment has been adequate no operation should be performed within about three years of the onset of the attack. An important factor in the choice of the type of operation is the patient's

The author describes tendon transplantation discusses its limitations and emphasizes the danger of

robbing Peter to nav Paul

To obtain stability of paralyzed feet a combination of the methods of Dunn and Hoke is used. In practically all cases of advanced paralysis this procedure will produce a stable foot with simultaneous rectification of any gross deformity that may have

occurred in the course of years

Myotomies and capsulotomies are of great vilue
in the correction of deformities. Various methods

in the correction of deforanties. Various methods are described Amputation is rarely solvable. The principal indication for amputation in infanile paralysis today is the p senior of in etrate uler ation of the affected limb. Even in the presence of such circumstant however every method of one rost to treatment should have been tried and the capic tried of the parallel of the presence of the control of the presence of the control of the presence of the control of the presence of the presenc

Lange F Tendon Transpl ntation S of Gyn :

GOSt q 7 xh 455

Transplantation of tendons to restore lost func

tion was frat su ested by Nicoladom. Nicoladoms operation was not allo the resuccessful howe or because the sir n tendon was tran planted into the paralys of tendon and stretch n took ple to subsequently. The Lan e m thod t anaphants the tend n of the unparalys d muscle must be a practice to the proper of the unparalys d muscle must be at the attachm nf of the paralys d muscle. The flat then is made by means of Turner silk No 6 or 12 thorout play sternize d. C e at taken to avoid play the states are about the hast formed tendonous the subsequence of the subsequence of the states are subsequenced to the subsequence of the subsequence

The best results are obtained when there is con

siderable adinose us ue

siderable adjoes its up.

In experiments on dogs pieces of p per banda e to or 12 cm square w e placed in the t sushanound these peces conn citie tissue was formed it was found that the pap r graft wa. expelled in

only a per cent of the cas Subsequently on account of the friability of the paper parchanent was substituted. This has succeeded in the cellent results in tendon transplantation and tendon autures.

fascia from the opposite thigh is suitured over the en is of the bones and the posterior surface of the patella. In this manner the entire point is lined. The joint is then closed carefully and a piece of sterile roldlesters sain placed between the tendon and

foldbeater s

and yoursegreated by the control of the presence of the presence of the control of the control

Tuth has treated by this method twenty cases of war sounds seemeen of acute arthritis twelve of recurrier and arthritis seem of chronic polyarthritis fur of fracture one of puerperal arthritis and one (po ttypheu) atthritis. The results were good in flip two reed or temotion of only 23 defrees or less in five and poor (re analysis) in four There was one feath. The best results were obtained in the 1se red-harmitis. Munkar L Mason MD.

Cmbredanne I Indications for Operative Treat ment f Congenital Equinovarus Club Foot f B & L J & S & g2 ix 315

In the e rly days of life it is possible to obtain omplete re fuction of congenital equinovarius club for its manual manipulation but the correction ru t be maintained and observed often for several years.

In the peri d of relative reducibility, when many ulasts in has proved ineffective other means must be emily of such as (i) section of the internal lateral hi, in int of the tibuotarsal articulation (2) ection of the init rain plantar surface of the foot (1 helps) periats in 1 (3) sects in of the tendon of the first after currects not the varue deformity.

In the pen 1 of complete are lucibility when the lef rmit c nn t be orrected by the section of ten ins r li m ni it is necessary to resort t opera

ti ns n th i s such as periastragaloid excision ti tale i m n i un f rm tarsectorry in the peri it tale i i excis n an attempt is made

t fine the a true is in good posits to between the til a nd tibul. The auth r objects to this procedure the same of the injury to the tibiotarsal articulation.

the a tr gal ctomies the Whitman method with t tr rr po itin of the foot is the method f h e

(u) I m tarsectomies correct the equinovarus of firm a but abort in the foot and do not complish frect the sujunit in The author prefers the lab. until m tarsectomy in the peak of tor a pet frech in the me housistal region to correct the quants and performed in the subastragaloid from the supulation.

In some cases the internal torsion of the leg bones requires correction by osteotomy on the lower end of the tibia ELYEY [BEREHEISER M D

FRACTURES AND DISLOCATIONS

Mage S The Use of Regional Anaethesia by the Nerve Block Method for the Reduction of Fractures and Dislocations i Sirg 1927 It is

The well known contra indications to inhalation narcosis in general surgery are applicable to the reduction of fractures and dislocations. The author therefore tried regional anarythesia in a series of fractures and dislocations to determine its relative

ments and indications

Local inditration anasthesia in the treatment of incutures has been advocated from time to time exer since 1885 when Conway first reported the successful reduction of three fractures of the radius under anasthesia induced with cocaine. Reclus in 1993 Lerka in 1997 Quehin in 1998 and Cohn in 1994 teppited successful results by similar method Dolinger and Hagenback advocated the circular infiltration of novocain proximal to the site of the fracture. The only mention known to the author of the use of nerve block in the reduction of fractures was Brooms report of bracklar pleases block made

Netve block produces an anaesthesia of the inobject area and avoids damage to the already injured tissues. To be satisfactory for the reduction of fractures and dislocations the anaesthesia in duced must render the procedure painless and

estable h adequate muscle relaxation

The choice of the author's cases was governed by the therapeutic indications which are more or less standardized in his clime. The main requirement was that the type of fracture or dislocation be one that would warrant an immediate manipulative reduction in contradistinction to one requiring protonged traction and susp isson. Tractures of the neck and shaft of the humerus and femur are commonly tratted by traction and suspension.

thalgesta is readily induced by nerve block and lasts from one to two hours. Afterest is insubilities may cause some discomfort but with co-operation and the preliminary use of services of morphine this

may be overcome

Six cases of fractur and islocation are cited as examples of the degree of muscle relaxation obtain able. Of the series of fifty cases reviewed reduction was successful forty mine. The only unsuccessful result occurred in a case of Tracture of the or aclass.

in which an open operation was necessary

Acte block may be done at various levels proximal to the sixe of the fracture or dislocation. In the cases cited different levels were tred in the treat ment of simile season. In fracture of the lower third of the foreign and ign eners block of the elbow and populetal space respectively proved astinfactory but in fractures of the upper or middle-

Thornton L The Treatment of Osteomyehitis
With Special Reference to the Lower Third of
the Femur J Bo & & Jo 1 Su f 10 7 12 204

In the early stages of ostcomyelha of the feature the treatment should be incusion for drainage. Later when there is a line of demarcation between the dead and I ing bone and when enough net bone has been formed to insure aften the of the shaft radical operation is indicated. The inner surface of the thigh is chosen as the operature size between the things of the shaft radical of the stage of the thigh is chosen as the operature size between the things of the shaft of

When the disease remains diffuse the case is inoperable as operation with complete excision of the shaft would be inadvisable

ELVEY J BERKREISER M D

Horan M. Reconstruction of the Ante for Crucial and Internal Lateral Ligaments of the Anee Joint A Record of Eleven Ca es B u J Su g 1927 N 569

Horan reports ele en cases of reconstruction of the anterior cricial and internal lateral ligaments of the knee joint by Smith's modification of the Hey Groves operation. The technique is as follows

A J shaped uceson is made from the outer side of the thigh blow the tuberle of the this and upon the nuner a pect of the knee. The patella is then a posed spill vertically and retacted. The extraction condition of the femura and the internal tuberos is of the this are distilled through in the line of the national curval hygament. A strip of fascus lata t² is not deison the number of the condition of the control of its then turned down from the this had dean through the tunnel in the condyle and third tuber on it. The adductor tuberle is duffied subcortuber on the condition of the condition of the condition of the history of the condition of the condition of the condition that the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the condition of the condition of the history of the condition of the history of the condition of the

Early and thorough re education of the muscle of the limb is important for success. Uter the operation prolonged immobilization of the joint by spiniting or plainter and later mechanical support of the joint by a knee cage or similar apphance are to be avoided as they are followed inevitably by atrophy and impairment of the support given the joint by the muevalture

The operation results n a joint capable of ath stan ling the stress and strain to which it is subjected in the course of ordinary life

Che allier C II Arthroplasty of the kne (La thropi sue d gene) I de h 0 7 zu

DA DA H LE INTHAL M D

Ankylo 1 in extension should no longe be consider d a satisfactory and result for arthroplastics on the knee because in selected ca es a movab e useful 1 int can be obtained. The best simplest and most easily carried out technique is that of Futti The best material for transplantation is a free sheet of anoncurous: The operation is to be con dere old when all we lence of infection has disspeared there is a foreign body fixtule or sequestrium in the port the bony loss is not too great and the muscles show no strophy. If the patient is receiving compensation because of the disability the arthroplasty is bledy to fa! In tuberculous cases surgery is rarely justiced but if the process has been helicited for a long time and the patient greatly desires operation it may be with justice in large of the arthritis has taken pile with justice in large of the arthritis has taken pile with justice in the process of the proc

In the author's cases arthroplast, a preceded by see eta's ects or months of treatment to clear up was nection and if the kneep fared in flowing the near the tendon. Massage and electricity arthroplet to the quadriceps— Just before the operation and plasterod Fars sphut is modified to the other is a semification to be ready after the intervention, and dies estima are applied to the call of the le to operated upon so that traction can be applied in mediately after the operation.

Under spinal and thesia supplemented at t m by ether an inverted U shaped incres n is made above the patella the arms of the inci on bein extended down to the level of the femorotib al 10 nt From the center of this incision above the patella a ve i cal cut is made upward over the tendon. The two lateral flaps thus formed are assed at either si'e of the knee cap and the vasts on the sides and there tas in the center are exposed. The vasti are then t along the sides of the patella and the inci ion carned upward at the sides of the te don of the re tu so that the latter hes free at the s des but remai sat tached above and below. The tendon is then sout in a frontal pl ne The antenor half represents the rectus tendon and the posterior half the asti tendon The anterior leaf is sectioned just above the patchs and the p sterior leaf about 5 or 6 cm abo e In this way the tendon may be lengthened when the time for cl sure comes

If the ankylosis is fibr us the disset too may be done with a kine and so row I no order to clean the entire point it is often necessary to ut the crucial and inside I liganouse. After the removal of addit and and modeling of the house there are returned forset as and modeling of the house there are returned forset as the state of the conditions of the state of the s

If the ankylos s is osseou the separat n mu t be made n th a chi el the line of separation pan slightly above the femor tibial joint. After the b avsurfa es have been well smoothed down a st p of day the patient was able to move his head freely

A ray examination after the operation showed absence of the fractured and projecting part of the anternor arch of the atlas

ROBERT V TOVSTON MD

Boorstein S W. Radiography During Manipula tion for Closed Reduction of Congenital Dis location of the Hip J B & S Jo 1 S rg 1927

Boorsten has found that in the closed reduction of congenital dislocation of the hip better results are obtained when the reduction is effected under the fluoroscope or the roentgeograms is taken before the plaster is applied. He therefore effects the reduction on the roentgeography to take it is not safe to use the fluoroscope throughout the entire manipulation but a roentgeogram can read the total as soon as the surgeon thereth that the data as soon as the surgeon the close that the data are seen to the control of the roentgeogram of the control of the control of the control of the roentgeogram of the control of the control of the roentgeogram of the roentgeogr

while the child is still under the influence of the telen Burning this time the hip abould be held by the assistant. If the surgeon is desistated with the position shown in the rorentgenogram he is then able to change it. After it is changed another rorentgenogram should be taken If at the time changing the plaster he is not certain which angle is preferable be can take corentgenograms in so, positions and then choose the better. After the plaster has been applied and is dry another pushed should be made of the position to serie as a perma next record.

Sinclair M Fractures of the Limbs L neet 9 7

The author reviews the treatment of fractures of the arm and leg with reference to the advances made during the World War He believes that not cough time has been given to the teaching of fracture treatment and deplores the present day hurned treatment and deplores the present day hurned treatment due to the deficiency in the number of beds available for fracture case.

With the introduction of the roentgen rays fracture treatment was greatly improved as the mention examination will reveal the presence of a fracture the shape and position of hone fragments any co-existing dislocation of or injury to a joint the presence and situation of gas gangrene and of air in the soft parts the presence of him the formation of and character of callus, and the solidity of new hone formed Comparisons of films taken in two planes at specified regular internal during the treatment offers the best means of armune at a correct prognosis. Moreover it can be determined with the roentgen ray just what variety of internal merbanical fixation will be best for a particular case and during manualation under the screen immediately before the application of a splint or of plaster of Paris it is possible to determine the areas of the limb to which the reconstructive forces must be applied in order to maintain the corrected position of the fragments

First aid treatment is of the greate t importance. After its administration the treatment should be continuous until a cure is effected. If operative some after the injury and under befret treatment of the conditions of the injury and under befret distinct or conditions. If there i serous bleeding dump, the first and treatment the wound must have first attention but when the loss of blood is not danger out the limb should be at once immobilized.

Stackard oes not facy the mass excluse some

times done during the war. He varies allo against the prolonged use of a tightly applied tourinquet. The initial force employed in extending the limb

should never be allowed to relax its relaxation will cau e the fragments to be displaced Too much movement of the patient and too

100 much movement of the patient and too active treatment soon after the injury may cause shock. By means of rest and the early efficient application of the Thomas splint the mortality from shock during the war was reduced from 80 to 20 per cent.

Repeated roentgen examinations are essential for successful results in the treatment of fractures

D FREDERICK JOSTES MID

third nerve block of the brachial pleaus and sciatic nerve was neces any for sufficient relaxation of the muscle groups. Pophiteal block is found satisfactory also for the treatment of fractures of the analie In fractures of the phalanger sufficient relaxation is obtained by block of the lateral nerves about the bases of the finers or toes.

Local anasthesia has far fewer complications than general narcosss and is devoid of the shock un peasanthesis and hazards of general narcoss. It does not require the hospitalization of an ambula tory patient and may be re-dily induced wherever the proper asceptic precautions may be observed.

NORMAN C BULLOCK M D

Dier §; The Anatomicopathological Character taties of Frectures of the Long Bones of the Illands and Feet in Relation to the Wechanism of Set Indication. Clients for the Diagnosis of Set Indication Control of the Con

During the war many soldiers inflicted vounds upon themselves in the hope of getting away from the front and in industrial plants workers often insure themselves to obtain compensation. The only was to determine that such injuries are self inflicted is to make the patient give a detailed description of the accider -tell whether it was a fall on the hands or feet or a blow from a heavy body and if the latter tell the size and d rection of movement of the body A careful study must then be made of the fracture to determine whether the injury could have been pro duced by a force acting in the ma ner described When a norkman injures himself he kenerally does at by placing his hand or foot on a hard surface and striken it with a hammer or other heavy body and be then to ar duate the force so as to produce a fracture with as little pain and injury as possible. A careful study often shows a difference between a fracture produced in the way and one produced by an accident such as that described by the workman.

The author reports illustrative cases of fracture of the metatarsals metacarpais and phalanges produ ed by compression crushing direct and indire t

flexion torsion and avulsion

Cousing does not cause sools ad longitudinal fractures in the bones of the hands or feet. The fracture lines are generally soil tary and transverse or oblique depending on the direction of the force wit reference to the bone and the margins are more to the sold of the soil of the s

The presence of a communited fracture e cludes the possibility of fracture from fiscens and shows that the bone has been customed. After dreet true that the direction of the fracture from fiscens as not sufficient or of logic or possibly lone trucking is not sufficient in itself to establish the mechanism but the litter can be determined from the localization of the fracture fit the opphysy or of a lones.

Direct fractures from flexion always occur in the diaphys s Total or partial detachment of the sphysis indicates crushing Indirect fractures from flexion occur in the neck and may involve several metacarpals. They differ from epiphyseal fractures due to crushin in the fact that they never unvolve the tont heads.

Fractures from torsion show oblique spiral lines in the dire tion of the action of the force or a v line in

the displiys s

Avulsion fractures generally occur in the thumb
and are associated with detachment of the apophs
is The nature of the force which produced the
fracture can be deduced from a study of the lesion
of the soft parts

AUDRY G MOR MY UP

Oppel W A Ante I r S bluzzii n of the Atla L i 1917 CL 1 698

The author reports a case of auterior sublitation of the atlas in a man of 30 years who sustain d the injury while carryin on his back and a most his head a load of oo lbs At first the natur of the injury was unrecognized and the condition was treated by extension and the application of a plaster banda e Three months after the injury the pat ent returned to work but twelve weeks later his symp Wh n he th n came und r th toms recurred author's observation the roentgen plate showed (r) a decrease in the space between the spi our process of the axis and the posterior arch of the atlas and (2) forward displacem at and fractur of the anterior arch of th atlas Th head being fixed complete roentgeno rrams were diffi ult to obtain

As the cond toot failed to impro e under treat ment with the plaster bands e and extension op ration was decided uron and a plaster b d was mad to embrace the ri ht half of the had neck and body

At ope attor the pattern in his plaster b d was taid on the right side at d an incision sinule should be posterior margin of the left sternom stood must be posterior margin of the left sternom stood must be seen to be sufficient to the states project in forward could be easily plasted. In the chiselin off of the anterior and onsiderable difficulty was encountered and it was encessary to place the index for in the retto play in eating the counterplay was sufficient to the state of t

Six days after the operation while the patent was a iil in his plaster bed he was able to m we his head slightly. The plaster bed was removed tea days after the operation and on the seventeenth examination of the laryix with a muror becomes doubly important in all cases of gotter because monolateral patalwas is often present and unsus pected. I should think your method was especially indicated in cases of gotter because of the fact that these patients even now and then d e on the table from olstruction of the airmay due either to parlysis or to some other condition. Your tubes would

The cleas that you have submitted appeal to me strongly. In fact I see a great future ahead for your tube provided you develop smoothness and deterties of technique as lar as insertion is concerne!

In or let that this method may come into use to the extent which it descrives it vill be necessary for the anasthetist to master the simp! technique required to expo eth lat nx. I feel sure ilso that shortly fiet vour methods are intro luce! someone will try to demonstrate that it is easier to introduce the tube by sense of touch smular to the manner of O Dwive. This will lead to di appointment failure and the discontinuance of the method.

The intratracheal method of annethesia is proposed as a safe and efficient method with the single disal antage requiring intubation by direct vision and the presence of the intratracheal tube in the

mouth

The following advantages may be enumerated to the elimination of complicated motor driven apparatus mianometers and devices for warming and heating, the vapor an operation field free from anxieties normal regarding right may always an operation and the companies of the companie

2 Complete control of artificial respiration by

the simplest metho is

3 I technique which makes available the main tenance of anasthe is by ether nitrous oxide and oxygen ethylene or any combination of the e agent

4 Protection from external pressure on the trach a

5 A method for operations on the no e and th oat which gives a feld resembling that offered with the use of chloroform with the safety of a light eth r amerikasia and protection against the a first tion of blood:

6 A fell of practical asep i for plastic operation on the face William F S1 CKLETO W.D.

11 ind ton E. M. nd Wertheim H. Brachial 11 u. Block. Its Clinical Application J. fm 31 4 9 7 1 u. 1465

Blocking the brachial plexus was first described b. Kulenkampff in 1911. Following initial reports

on this procedure many complications and unton and effects were described such as deposition of the solution within blood vessels injury to the pleurs or tung paralysis of the period o

This type of anisathesia is of a hantage because it is immitted to the portion of the body to be operated upon the vital tenters being unaffected it results in a phi ological section of the nerves supplying the upper extremity and reduces shock to the minimum or prevents it entirely and it princes conscious enterest which is no operative done for the period of the properties of the properties of the population of the form of the properties of the various numbers the cooperative movement of the structural units. Also after the reduction of fractures it permits the patient to go immediately to the X ray from for a follow up plate and allows a secondary reduction without pain if further correction is procession.

The advantages of brachial block over local injections at or below the ellow are that as the site of the wight toon is away, from lymphatic channels there is less danger of passing the needle through infected tissue and the tissues are not distorted or deviatized through the derioust of the solution at

the site of operation

The authors review a series of 105 cases in which operation was performed under brachial plexus block In 102 of these the operation was completed without additional anasthesia. The chief difficults encountered was failure to obtain uniformly com plete anasthesia. In the strict sense of the term complete anasthesia is never obtained by any nerve blocking method touch sensations always remain the patient being conscious of manipulations at the operative field For this reason the psychic preparation of the patient and adequate prelimi nary doses of narcotics are of unusual importance when brachal plexus anæsthesia is to be used Auequate doses of some synergistic drug such as morphine or scopolamine should be given prior to the block

Contact with the nerve trunks must be avoided. The operation, must be delayed until the finger tips are instantive; to pain. An interval of fifteen minutes should be allowed after the injection before tests for anxieties, are made. The patient must be kept rerumbent and under observation until the anxieties have worn away.

JACOB S GROVE M.D.

SURGICAL TECHNIQUE

ANÆSTRESIA

Hin on A. B. Convul ions Occurring During Surgical Anaesthesia B 1 37 J 1917 1 950 Linson reports fifteen ca es of generalized con

I mount reports little et a ci of generalized convisions occurring furine their narro is in his experience of outer 1000 anaesthorus. Ull were the converse of the converse of the concurrent of the converse of the control outer the concurrent the control outer the con-

The convul ions begin with twitchings of the evel is face or arms and rapidly generalize. The on et is ea lly I tingui he I fr m ether clonus which is courser an I m re thythmical Just bef re the consul im, start the breathing usually becomes jerky ventilation bec mes poor and there is per sistent evar is soon the poorly co-or linated rest frations seem to exerflow over the body in the form (f gen rel ged convulsions. The seigure may stop pontaneously or after treatment or end in death It e of the cases ended fatally to b tory of epilepsy charea or previous convul ions was of sine in any cae Ether by the bomb m th d was used in all Nearly all of the patients were young persons with acute infection. In mo t of the cases the condition was preceded by difficult in sufficient or stertorous treathing with cyanosus

Prison attributes the ron ulsons larg [5] to increased carlon of the in patients sensit; et ol it rither inturally, or as the red at of tourming or pureful. In his last sit case in which the tree intenwas braced on this assumption, the scene is was short ward the pompin terms all of excress earbon dourse by remoin coverings from the face aim, the form relevant, any obstruction of the air passager and fl. ing oxygen toward the mouth. Recovery from anesthesia is allowed to refresh other of the treatment depends on the prompitude with which the conset of consultances is foreven.

BLRTO CL SK JR MD

Fisq2 P J Intratracheal Inhalati n Prelimi nary Report of a Simplified Method of Intratraci en I Anesthesia. De cloped Under the Supervi lon of Dr Cheraller Jack on A & Olds y 1/1 1917 394

There exists a test need for a simple intratracheal method of anasthesia. Intratracheal insuffation because of its complexity, leaves much to be desired Intratracheal insulation furnishes a solution of the problem provided sufficient ventilation is secured.

I confer nee with Dr. Chevalier Jackson led to experiments in his clinic to determine the diameter of the large t tube which may be insubated a J permitted t le within the cords for a period of a least two bours without pr lucing un lesirable symptoms.

Jackson's epinions are An infaut a few mints of can tolerate a 4 mm bronch scope v. h. h. a child of 6 vers we use a 6 mm bronchost pe about 7 mm outsile In a shill of 6 vers we use a 6 mm bronchost pe about 7 mm outsile In an adit we use a 0 mm bronchost pe who his about 10 mm outsile. Uld the bresthing is done through the broncho cope when a full size use of through the broncho cope when a full size us of

There is no reaction of any consequence in a operation of as long as two or three hours. There is vastly more react: a from the bubbling back a d firth of the ether mucus when ether is given in the open method.

I am no authority i hatever on the subject of anisthesia. When it comes to exposure of the laryny visual examination and the reaction of the riucus. I feel confi lent to speak.

We have fully determined the matter of the inof your mobilation tube. The largest size catheter \$5. F. will enter the largest of a man, the reilitegest size is \$25. F. will enter the largest of a womalloth off the foregoing are maximum sizes. It is possible that there may be an occa soral patient in whom one would be a tight sit; but I do not be! e. the respective uses in the I rank for two hours.

In some cases 32 F would be nece sarv for a man slarp.nx because of the glottus being somewhat less thin the average mans. In any case a catabette of this six would pass an abundance of air for breithing purposes for any man. His o lation whould be effect and his color good.

Of course if you will use a lightly fitting rubber tube no accretions will e cape down at w of the tube into the trackes. I would regard it as we alwars to aspirate the play pix clert if secretion of all kin is befre the inhalation tube is removed from the laryar. If this is not done accretions will be aspirated into the larvary to as soon as your a retheat tube is withdraw.

It would be advise his to have the laryen of patient examined with a mirror bel e anasshesia particularly in every case 1 which one peet to us cour method of int brition. The will protect you against unjust criticism. Pat 11 often he eleons usuarspected in the bright protect of econd can be parallel as a protect may a coord can be parallel as The patient my slow eleons to the country of the control of the co

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Jones E The Breakdown of Hereditary Immunity to a Transplantable Tumor by the Introduction of an Irritating Agent J C cer Resea ch

To demonstrate the part played by writation in the results of tumor inoculation the author per formed experiments on mice. The mice were from three strains which had been used extensively in cenetic experiments. They are designated as the the black and the albino dilute brown The dilute browns are a very homogeneous strain which has been produced by close inbreeding since toog and is 100 per cent susceptible to tumor inocu lation The black stock has been developed as a control group to Little s \ ray abnormals They are descended from Vale 52 and Females 57 and 58 and are designated as Lines C57 and C58 The albino stock which was obtained originally from Barr of the Memorial Hospital New York was inbred by Bagg and ince then has been inbred by the author

Both the black and albino stocks have been used in numerous experiments as non susceptibile con trols and no individual of either stock has ever grown the tumor progressively on simple inoculation

The tumor employed arose spontaneously in the did the frown strain and was dangoned by European as an adenocate norm of the mammary gland. In a peliminary, expeniment carried out by Little in 1920 it was determined that this tumor grew progress vely in soo per cent of the diduct brown to which it was inoculated. The allium stock and the black stock were proved one suscept ble

Under figure which was shown to be pure wool by microscopic examination was used as the irritating gent. It was cut into small pieces from 2 to 4 mm square and sterlized under re-list ste-

pressure for an hour

The nace were unculated by the customary team renthod the tassee being placed in the analyce goon Ordinary conditions of ascepas were observed. There modes of introducing the finanel were tred. In one after the hair had been clipped on the side of the mouse and the aren had been swabbed with an ordine alcohol preparation a small incision was made and the bit of flamel inserted subcutaneously by means of sterile forceps. The tumor material was then introduced through the trocar as close to the flamel as possible. In other instances this method was varied by introducing the tumor material first. In subsequent experiments in order to insure the pronimity of the flamel and tumor to insure the pronimity of the flamel and tumor.

tissue the flannel was souled in an emulsion of tumor in physiological salt solution and then placed in the trocar with a piece of tumor tissue both being introduced simultaneously

being introduced simuration and inoculations of the induced tumors into different strains of susceptible and non-susceptible rince inducted that growth of the original tumor was induced by the presence of the flamed and that the neoplasms were not roughly of the host tissue

FREDERIC C BANCROFT M D

Carnett J B An Atypical Cancer of the Forearm with a Discussion of the Biopsy Question Suc Cl V Im 1027 µ 243

Carrett reports the case of a laboret 21 vens of age who thenly month before his admission to the boptimal was spiked on the itself forearm by a basebal side. The wound supported and then also the carrett was the carrett by accessed in size. A physician was not consuled until a year later. A surgeon then advised another than the carrett before the carrett before a large than the patient refused to allow it Brossow it but them was necessite for carretoma.

One month later the extensive lesson had destroyed the extensive tendons. In the bottom of the ulcer which bled easily and was surround d by an elevated ndurated skin margin the radius and ulna were exposed. One small epitrochlear gland and several avillary nodes were palpible. An interesting feature of the case was the repeated negative findings on numerous bletal biopiess taken from various places in the lesson. The microscopic examina ton revealed, only chronic inflammation, and the

bactenological examination was practically negative. An extensive dividement of the entire dividence was performed. This was followed by the surface application of radium without noteworthy result. The parkent favilly consented to amputation but refused operation on the adilary lymph nodes. With the exception of one slide which was susprious microscopic examination of the exceed user failed to reveal evidence of malignancy. However the expression with with mode found in the amputated member showed metastatic squamous-cell excendence.

Catnett concludes that the cancer in this case developed because of the prolonged suppuration developed because of the prolonged suppuration the latter acting as a chrone irritant to the epithelia edges of the around. He believes that this case illustrates the fact that like any other laboratory report or closed indirect that the case illustrates the fact that like any other laboratory report or closed in the same of the art of the case illustrates the fact that like any other laboratory report or laws and the same in consistent with the same interest to a fact the same included as portion better to make larger bropers including a portion better to make larger bropers including a portion

PHYSICOCHEMICAL METHODS IN SURGERY

ROETTGENOLOGY

Stephens J G and FI rey II An Invertigation Regarding the Immediate Effects of \ Rays on Living Animal TI sues R u J Rad 19 7 333 | 350

I aperments conducted by the authors which are described in dictait laised to demon trate any famed at effects from coenteen radiation which might rescal the mole of act on of roenteen rays on brings it see 'Astah of the blood per some respiration speam volume and heart action showed no lefante effect during prolinged irradiation. It is agreeful that the contrary had ness of other in everygator may have been due to electrical leakage when the contrary the contrary contraction and the contraction of the processing of the contraction of the cont

Destarding A U: The Analgesic Property of

Resentgen Rays Kalent (y 16) 1317
Resentgen Rays As well as ultraviolet rays are kn wn to possess dramte studencet or perties humal experimentation learning on this subject is naive ally meager sunce it is distincted to determine the degree of subjective sensition in animals. The studens of Swarm although incomplete in the degree of subjective sensition in animals. The studens of Swarm although incomplete in the degree of subjective sensition in animals. The studens of subjective sensition is animals. The student of the subject is also subject to the subject of the subject is subject to the subject of the subject in the subject of the subject

In 1000 Stembo reported having cure the ras treatment twenty-one of twenty eight cases of neuraleia. Many observers have noted that pruritus and and pruritus vulve and the stehin of chronic eczems are often promptly releved after roestger ray treatments. In the radiotherapy of ben an and malignant tumors the analysise property of toentgen rais a matter of daily observation. The anodine ner on of the \ rays constitutes an indication f the u e of irra hation not only in er es in which to may be expected to exert a marke I inhibitory in fluence on the tumor but also in advanced or hope less cases in which the relief of pain is the only object of tre tment Unfertunately ve are not yet able to det rmine definitely beforehin i which cases are likely to derive benefit. It is possible howe er to make certain broad general zations I or example pain due to the pressure exerted by a turnor on near ly nerves is commonly rehesed by a lequite irrad ation of the region occupied by the tumor Lain due to pressure upon or imitation of rerve

roots by contiguous metastatic foci is usually controlled by irridiation. Whether such control is permanent or only temporary does n t seem to be absolutely dependent upon the subsequent behav or of the neoplastic process.

MISCELLANFORS

Gau win Sir II Discussion of Light Treatment in Surgical Tuberculosis P or Roy Sot Mid Lord 1927 1 805

Gauvain as that while hel otherapy ill ret cure all f rms of surgical tuberculous it is usually sery beneficial in this condition. It should be erpled only to supplement other treatment

Ireatment by ight may be general or local or both and the source of the light may be the sun or an artificial source or both. The be t type of general ight treatment in a generase will depend upon the nature of the nations a response.

In surgeal tuberculors hel otheraps, is more effective in the constantly changing count of our I in temperate changes than the company attitudes the country of the control to the country of the light may be much preate the surface of the light may be much preater the surface into of suchpits over artificial high in lise not a much to its intensity as to the surfaces in the character and inten int of the light supple meated by changing external conditions not deducted to the changing external conditions not deducted to the

Item has church eye ence Cananan has learned that he may expect the greatest essenad re posts in the spring an I carl summer Progress become ripid provided atmulation is not increased be one the patients expactly to respon! Given a minural light value the benefits of realizon may be at bed expected to respon to the patients of the provided provided that the provided provided that the provided provided that the provided pro

different cave.

Caus an describes a practical method of supplying stimuly by the use of bolton es with shiding roots of vita girss. He belie es that there is no evidence that the sum of the boltongual responses evoked will be such as the sum of the biological responses evoked will be such in the fall persons are most variable. A correct of the control of the cont

basis of cli ical experience

ENTL C ROBITSHER MD

should r and pelvic grilles and sarcoma of the so t ti sues which is no lineer localize L

4 Operation is lemnitely in licated for all sar comata of the un ser and lower law meelogenous estroma chon tro arcoma o teosarcomata an l th teralle sarroms of the call Haller breast mary is to be and hitney and melano secoma

Kryrt (7)

GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

McLeal I W Wheatles II and Phelon II 1 On some of the Lucini ined Difficulties Mer with in Culti sting the Conococcus Tie Lart Pl yel by the Amino Acid B t J Lan 11 1

T) continue I introduction of ne media for the emath I th experoccus su ests that the I tin til's unlit in the ultivation of this mi ro organi m are ill un erstood. McLeod and his asso. costen to milet at cult to resent the results of faine ! to the money better on their pecual me has After periments with various types of me lia et as the trast the fellowing concl sions

. The elements essential to the growth of the many cus at certaine (a) some source of amino nitroe n ni of carbon (t) salts such a are oresent in me t str t and (c) a coll of which is canable fire t time the ream in from undue concentra of ertain amino act is and of enabling it to a similar these and others. Illood heated between to and me men ha grove I far superior to other

col ! tri I in the respect

I pleas the epococcus is protected by suitable all it it is lat I to Le en by persone solution f e ser el that growth occurs in the presence of mu h) too critate as of ol il if the actione s weling oncertratun [to wreteert rather than a r per cent as is usually recommen led for I terbi d'al me ia

s On in e pigiting the effe t of amino act s on the re th 1 th gorecoccus at 1 1 unittat they ate n shl cla Lell to threge tw

Ami n'aci is irribi r in concentratio s at ros per e rt irrespecti e of the amo at of prote to g 1 1 t t sometimes showing favoring to in I w e ce train oot to o ; pet cent et i tr ; th e thep)laurs e ant pethans tı

1 trinoaut into one of when small am t fimt ti em L larepese ta dother win in

10-4 at her tellitry in the 11 w c trate er it tweich t ter thebam withmost fere t 11. fi iree tinthere megte 707 I a ftaurre The tat which i e t 5 --I I th tru were out the rest s we lits a g eet

a te terre arts an ala white man an ear provide a La فلك خسأة تخشت الم

inhibition of crowth owing to summation of in hibitory effects and in any case the conococcus annears to be unable to utilize amino nitrogen unless a certain ratio of blood or enun slent colloid to amino nitrogen is maintaine !

If these conclusions are correct the failure of the gonococcus to grow on or heary nutrient agar depen is upon an unduly low ratio of untable coll 11 Mari w I Carsos M D to emiso pitropen

Evolan S Echinococcus Infection in the Indo relal District of Raky (De Ichn 1 th ser

kra kung nim Int trebezirk Bak) I & d d f Ch hord Ta bak rb Bk 106 n ...

In the ho pital at Balaitan 12th cases of echino coccus injection have been treated in the last ten years Losin philia is not especially haracteristic of echinococcus infections as it occurs also in her stie cirrhosis and acute henatitis. The best hi lomcal test is the intra lermal test of Ithurrat funly one negative test in fifteen cases of echinococcus infetion

Of forty five cases of echinococcus infection of the liver eighteen were operated upon by the one tage Lin lemann method with one leath and seven by the method of Delbet (partial resection) with the mars union. In twenty cases the Lo a las lie brow pregation impersion f from a to to per cent for malin solution) was done

Of six cases of plenic involvement all were cure ! In the cases of echinococcus infection of the lune there were two leaths. In two cases of renal infection pentitectoms was I llowed by enod recovers Operation gave good results also in two cases of ethir voccus injection of the pleura. The author

draws the following conclusions

assessed with ammale.

In the 1 tree of Baku ech nococcus infection constitutes o or per cent of all surmeal affections an ! affects mo t frequently the liver pleen lungs and kitneys Losin philis is of no significance in ech pococcus infects n The intrafermal test is best and should be investigated further. In the treatme t the I ms 'as Bobrow method with forms In impati es seems to be the best proced re as it permits primary clas to of the wound A cut (7)

Melkonjan G Echinococcus infection in the Lenink n Hospital (De Echinol thusetran hu ern ich dem Mat nal des Len nas er bitan t to rel Int and I Ch Ko L d Tra la 1 / 14 Balu 1915 p 111

In a penied of four years, thirty seven cases of echiercocrus i erton were treated at the Len nkan How ital. There we were oversted up a with six deat a mortal to of 166 per cent. The author ex la s the r ma to be the fact that the popula to a of the reg on to very backwarf and the cases there I come i r trea me t late. Ech nicoccus I within it ten a copress as the people live

of the ulcer the margin of the ulcer and a portion of the adjacent skin or muross. If proper safe guards are used the danger of favoring metastacs by opening up blood ves els and lumph channels is serve slight. When the patient is anorthetized the cautery knife is used. In the caves of con crus patients a shart knife used gently with ethal

chlory le anasthesia is satisfactor When the diagno is of cancer in deeper to sues is furly cert in Carnett prefers to do the rate al eneration without running the risk of making a b serv fle believes that a blops, tone in a deeply situate I cancer is langerou In cases of sarcoma he usually avaids forme fromies because of the large thin walled sinuses unless an imme liste amputati n I contemplated The sum and sub stance of his remarks is in licited in one sentence in which he s vs that in any loubtful ulcerative lesion a bionsy should be the fist ten to ettle the diagnosi It will settle the question of cancer and tuberculo is an I may show evidence of syphilis I rolonge I delay in d agra is not repeated while to Instions of cancernas le mos are f e more l'Letto result in the mis he spread of the cancer than is

early resort to routine blopsy

I NII C River M.D.

Reinhard M. C. and Tuck r. k. l. Betelhou Reaction for Lancer Serum. J. Ca. c. K.s. d. 10.6 S. 428

The authors tested Botelho's serum rection on samples of cancer serum and sheep high cattle and ral bit serum. The proteins and amino acids were also investigated. The technique was as follows

The serum was distinct sith an equal volume of lust solution. To o 5 ccm of the dissolution there were all el 2 ccm of 5 per cent citric act 1 ccm of formalin water t m ke 100 ccm, and 7 ccm of a solution of t her apostas sium nodi le (toshne 1 part potas 1 um tod le 2 parts) distilled water to male 210 parts).

When the reaction is negative the flui remains clear I outive reactions are evidenced by the for

mation of a lark red precipitate

Of the sera from bits cancerous persons eight
non-cancerous persons and five animals all reacted
positi el)

The precipitate which is fromed de
pen is upon the presente of serum albumin and
serum globulum Of the animo acid studed only

try ptophane reacte I positively
Farmanic W. Ba CRIFT M.D.

Wollner W The Results of the T eatment of Succoma in a Period of Ten Years (Fig b s o) hugen Sark mb ha diung) B (

El Ch 1910 carx 11 30

It is spot carefully a surgically at the sarcoma who were treated surgically at the law igstaden Hospital three (20 per cent) still remained cured after to and a half years whereas of eight who were treated with the foentgen rays at remained cured after one and the equarters

years Wollner followed up the last mentioned right patients and found that three nere still alive inc and and seven years re pectively effect the compilition of the treatment. The incidence of permanent cure was therefore 37 s per cent in contrast to knettner a figure of 30 per cent for each

treate law geally.

In order to obtain further information with regard to the value of the roentgen rays in the treatment of acroma the author investigated the entire material of the hopital for the past teny seas a total of sure cases in fifty one of which the duag now a was confirmed by microscopic examination. Of the sixty just not it enty two are still above. The short at just not of free loon from recurrence is more year.

of the treatment cases in which the treatment of the trea

I only one by operation and reenigen irradulton embart. Of the tearty we en cases which re mainet after sulfra in n of those which were in operalle an J were given tending it returned to dy five (i.8 y per ce it) remained curred after five pears. The author explains this in far orable result by the fact that in mann of the cases of the series the proposus was urfavorable (sacroma of the protos team and the pelvic gir lie) and by the probable vir the protose town and the pelvic gir lie) and by the probable vir the protose of the cases had an unfavorable effect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect on the results of the \(\) 12 marketonial ceffect of the results of the \(\) 12 marketonial ceffect of the results of the \(\) 12 marketonial ceffect of the results of the \(\) 12 marketonial ceffect of the results of the \(\) 12 marketonial ceffect of the results of the \(\) 12 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect of the results of the \(\) 13 marketonial ceffect o

treatment With regard to the roents n dosage the author state that the original Setz and W art dos ge of teom do to po per cent of the skin ey thems do the common to the per cent of the skin ey thems do the common tender of the skin ey thems do the common tender of the skin ey thems do the control of the skin ey them do the control of the skin ey them does and others were ge in from do to oo per cent of the skin ey them does and others were ge in from do to oo per cent of the skin ey them does. The pre-operative are do the skin ey them does. The pre-operative named the skin ey them a does. The pre-operative named to the skin ey them a does the tender of the skin ey them. Do toperate the tender of the skin ey them and the skin ey them are the primary tumor as unandianced by the 's a ski is shown that recurrences and inclusious other real teletter the nother properative tumor.

To upplement the tre timent described sacure

treatment and them therapy ere given With re 1 d to the cho ee of ope atton o \ ray tre timent W liae draws the following conclusions 1. Ro nigen t eatment is in deated defin tely for all metastates and in perable ases lymphosar

comata and sa omata of the to sils and thyroid

Roentgen te time t sho ld be tried in all
cases in which operation would be too destructive
as in sarcoms of the skull the steraum and the

reaction was positive the Weinberg reaction was also positive

In fifty-one cases of echinococcus disease of the liver the puncture was made shortly before opera tion In nine ca es in which it was made from one to several days before the operation there were three deaths Ceneral angesthesia was used in fifty seven

cases and local angethesia in six

In sixty cases of echinococ us disease of the liver the following operations were performed one stage marsumalization in thirty two two stage marginalization of Lolkmann in the With the resection through the diaphraem (Troianow) in twelve the Robro Posadas procedure in ten and total resection of the cysts with a portion of the liver in one case also with the pall bladder in five Forty seven of the nationts recovered and ten died The othe s could not be traced In the ten fatal cases the cause of death was

fleutal empyema with pneumonia in six cases diffuse suppurative peritonitis in the cases dys entery in one case pneumonia in one case and suppurative approcholits in one case. In three of these ten cases the nuncture was made a few days before the operation. Amorbic dysentery, which is very common in the Caucasus is suggested by the author as the cause of the suppuration of echino

coccus disease of the liver

The author has had also five cases of echinococcus disease of the spice : In three of these splenectomy was done in one a marsimalization and in one a resection. The nationt treated by resection almost died from hamorthage. The author concludes that in ech nococcus di ease of the spleen splenertomy is the operation of choice

In addition the author had eight cases of echino coccus disease of the abdominal cavity In two cases the condition was in the ileocarcal region in four cases in the right half of the ab tomen and in one case in the left half of the abdomen and the lesser pelvis. In one case the entile abdominal cavity showed echin coccus yets Seven of the patients recove ed after the operation and one died Part al extirpation and marsupialization was the operation of choice

The e were five cases of echinococcus disease of the lung This 1 believed to b usually primary Prima y cysts of the pleu a are very rare. The ope ation of choice was the one stage ope ation with rib resection first. The lung is fixed with a few cateut sutures

There were three cases of echinococcus disease of the thyroid In none of these was the diagnosis made before operation. In one case there developed during the operation a severe asphyxia which nece stated tracheotoms. The operation consisted an margunialization

In seven case, the muscles (thousans bicens nec torale major etc.) were affected by the echino coccus disease Extraordion was done in five cases

and matsunialization in two

The author reports also several cases of echino soccus disease of the bones. When the condition is localized in the vertebra the proposits is especially unfavorable. In one case the tenth rib was affected extreation far into healthy tissue resulted in a cure. In another case the third lumbar vertebra was involved and the patient complained also of sciatica and an abdominal tumor Extirnation of the custs by langrotomy resulted in a complete Kocn (4) finte

Strunnikay A The Operative Freatment of Echinococcus Disease (Zur Fr ge der operativ n Th raps der Fchinokolkushta kheit) Verlandi d I Ch A ne d T a ska kas se b Balu 1026

In cases of echinococcus disease the author has onerated for the past fifteen years according to the method of I osadas or the so-called second method of Bobrow except that after eva nation of the fluid contents and removal of the chitra home the cavity is carefully scrare I out with a sharp curette and then swabbed out trice with formalin. The edges of the wound are then sutured with a con tinuous cat at auture and the ends of the surure are tied together so as to decrease the size of the cavity somewhat The line of suture is peritonized with free tran plants of omentum and then fastened to the abdominal wall by deep sutures which include also the tis ues of the affected organ

In all of the twenty seven cases operated upon in this manner the convalescence was entirely normal The liver was involved in twenty two cases the lung in one the spleen in two the kidney

in one and the mesentery in one

The author believes that this method known as the Posadas Orlow method is the best Un fortunately however it cannot be applied to every case It is mappl cable when there is hamorthage from the cyst wall when infection of a purulent character is present and when the connective tissue capsule is ext asively calcified Loca (Z)

Twenty four cases of hepatic involvement were operated upon in one stage three in two stages and two by the one-stage transpleural method Posadas Bobro v operation was not performed.

Of two especially interesting cases seen by the author one was that of a young woman who had a small tumor on her neck and was suffering also with paranlegia Canes of a cervical vertebra was sug gested The patient died Autopsy showed an echinococcus cyst of the fifth cervical vertebra which compressed the spinal cord. In the other case there was an echinococcus cost which the author believed to be a tumor

In the discussion of this report Greaton (Tiffie) stated that from 10% operations for echinecoccus infection he has come to the conclus on that the so-called closed method is the operation of choice He reported a case in which he operated for e hinococcus disease of the gall bladder A fistula resulted

and the nationt died from asthenia

TOGICICAER (Baku) reported an operation for echinococcus infection of the left submaxillary

gland in a 13 year-old boy

Froncy (Leningrad) stated that in his cases of echinococcus cyst of the liver he performs a radical resection of the cyst with a portion of the liver or at least with the fibrous capsule. In one case he re sected the entire left labe of the liver with the cyst If severe hamorrhage results he gives virocol

Sicrygo (Baku) reported an operation he per formed on a o-year-old girl with an echinococcus cyst of the liver He removed part of the liver with the fibrous capsule and covered the suture line with a free transplant of omentum Recovery resulted He occasionally gives this nat ent fresh an mal bile Kezek (Errerau) opposed the closed method he

uses only the open method

KOLJUBALIN (Smolensk) advocated the closed method of operating He cited a case of echinococ cus infection of the thyroid gland which was oper ated upon in the clinic of Razumowskij and a case of his own of echinococcus infection of the anterior abdominal wall

FINKELSTEIN (Baku) stated that echinococcus disease is a common condition in the Caucasus and must be strongly combated. He tited a case of echinococcus infection of the pancreas and two cases of infection of the vertebral column in which he

operated

ZULNKIDZE (Tiflis) cited a case of a patient with echinococcus disease of the f ontal region of the brain who was operated upon by him and recovered Grozpowa (Tiflis) referred to two ca.es of

echinococcus disease seen at the Tiflis clinic-one with multiple cysts of the abdominal cavity and the other with obstruction of the bile passages by a piece of chitinous material from the purulent echinococcus C) \$t

NAPALTIKOW (Rostow) stated that in his opinion the fibrous capsule of the cyst should be removed as thoroughly as possible as it is not impassable by the Koch (Z) echinococcus

Ter Nerseso G The Present Status of the Question of Echinococcus Disease and Its 8 releas Treatment (Ueber den gegenwaerugen St d de Frage der Echinokokku erkt nku g n u d ihre operati e Therape) ferhandl d f Ch. K ng d Tr n k kas 1g b Baku 1026

For a long time it has been believed that most of the cases of echinococcus disease in Soviet Russia have occurred in the Caucasus Th's belief has recently been confirmed by statistics from the large hospitals in Tiff s In one of these hospitals there were 105 operat ons f r echinococcus di ease among 8 815 operations during the course of fifteen and a half years a percents e of z In the other hosthe corre ponding percentage was 111 In the Transcaucasus echinococcus disease was found in 1 10 pe cent of cases coming to autopsy In Len ingrad this percenta e was o 25 in Moscon o 15 in Odessa o 78 and in Nowočerkask z

The author reviews ninety cases of echinococcus disease of various organs which he operated upon in a period of fifteen years. The parts of the body involved in these cases were the liver in sut; (th rty-seven females twenty three m les) the spleen in five (lour females and one male) the abdominal cavity in eight (six females and two males) the thoracic cavity in five the thyro d gland in three the muscles in seven (six females and one male) and the bones in two (one female and one

male)

As yet no pathognomonic sign of echinococcus disease is known Of the laboratory methods o diagnosis those which are used most commonly are the Bordet Gengout Gredini and Weinberg tests but these give a positive result in only about 50 per cent of the cases E pectally when an eosin ophilia is present a negative result does not neces sarily indicate absence of the condition over a positive reaction may persist for a long time (up to ten years) after emoval of the echinococcus focus

Of much greater significance are the intradermal reaction of Casoni and the subcutaneous test of Pontano These tests are more accurate than the Weinberg test In the author's cases the Cason test resulted in a correct diagnosis in 84 per ent of the cases the Pontano test in 66 per cent and the Weinberg test in 50 per cent Eosinophilia shows a posit ve result in only 20 per cent of the cases Roentgenography and roentgenoscopy with pneumo peritoneum are regarded by the author s methods of value in the differential diagnosis of echinococcus

d sease of the abdominal cavity Most widely distributed is the hydat d form of echinococcus. The alveolar form is les well known in the Caucasus Ninety per cent of the pat ents with echinoco cus disease of the li er complained of pain in the right hypochondrium palpitation of the

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INTERNATIONAL ABSTRACT OF SURGERY

NOVEMBER 1927

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Montgomers A II Ossify ng Fibromata of the Jaw 4 / S g 927 30

Three ca e of osteofibroma of the jaw are reported and eve teen case reports from the l ter ture are abstracted. Four of the cases reported in the litera ture vere not haracterized by the simultaneous growth of bone and connective it sue

Mans fibromata of the Jav begin to develop between the ages of 7 and 4 years. These tumos are firm sin onth and curvamenthed. They are attached to the bone but not to the overlying soft it sue and are not tender. Microscopic section shows the ch racter it trabecules of bone it sue separated by con nect te time.

Clinically, it is difficult to differentiate osafying floromats from central bromata industeal o te omata and floodformata industeal o te omata and floodformata. Hippel says that in the upper jaw the principal difference is that to tendbro ratas do not tend to a rrow the nose and c u e shight diplacement Odomotol exist and florocystic highly diplacement of the conference in the rectificing parameter. Diffu extra tender of the conference is the rectificing parameter of the conference in the con

O teofibromata are benign and do not recur after their the ough ope ative removal. Surgery is the only treatment and all

J FR & DOLGHTY M D

EYE

flughes E . A T eatm nt for Traumatic Sym bleph ron B 1 J Ophih 19 7 x 337

But of the lower conjunctive from chemicals and 1 metal often esult in symblepharon. When once c tabls he I this on thion is difficult to e treet. For t prevention when I not always easily acc mpl sh d l's the usual methods the author has det wed an ageneous apparatu a framework of salver with two horizont I bars connected at each end

by a loop. One bar fits into the formy the other outsile the lid. and the two loops cross over the edge. The two conjunctival surfaces are separated until healed by a small strip of goldheater's skin placed over the bar in the formy. The frame is held in nostition by adhesive. Visit Westort V.D.

Smith P On the Mo ement of the Intra Ocular Fluid as Taught by Theodor Leber B 1 J Ophil 9 7 1 63

Ophth Imc surgeons have generally accepted Lebers a beary of the movement of intra-ocular fluid a continuous flox from the chiary proce is forward through the pupil and outward at the angle of the anterior chamber but mush have labely been disturbed by a roow attacks upon at from the standpoint of chemical affinity molecular concern that the continuous and electric curve its Nevertheless (the third of the continuous and electric curve its Nevertheless that those is he typed at are relong too much on the findings of physicochemistry and attroching too little weight to chincal observation. Smith believes that we are folly justifed in

maintain og that under the influence of two oppose ing forces the fluid moves slowly, and continuously through the chambers and that the chlary capit air semit the fluid because their blood pressure is high enough to o ercome the osmotic force while Schlemm's canal and the ins' veries absorb it be cause there the blood pressure is lower and osmotic force pressul.

Concore MeXcuit** 7 M D

Dunnington J II Cone mitant D vergent Stra bismus 4m J Oplik 9 7 3 x 490

Dunnington stites that my opis is not an almost or stant ac ompainment of concomitant discrepent strabisms as is generally believed. In his opinion the dive gence is due to invergence ever a and con e.g are insufficiency. For the excess he advise to cotony of the extern and for the insufficiency, p ism exercises and resection of the insufficiency. p ism exercises and resection of the insufficiency p ism exercises and resection of the instruction.



tions foreign protein and typhoid vaccines have been ir rected sub utaneously or intramuscularly Polyvalent stock vaccines are comparable to foreign protein inoculation Stock vaccines made from single organisms are most valuable then the selected organ sm approximates the infecting bacteria

Staphylo occie infection of the sain of the au liters canal and nasal vestibule h a re ponded to the use of the bacteriophage of d Herelle Has has re ported success in the treatment of intranasal infec tions with mass cultures Fenton ha obtained brilliant re ults vith hamoly tic v come Material is collected from the spheno ethm id recess by the use of a long platinum to sp and inoculated on human

blood broth an i human bloo i aga

DALAND I cu ses accinotherar in relation to chronic ton illitis. While the basic treatment of t milita a surgical va canotherapy is valual le after tonsillectomy in the ca of elderly person and patients suffe ing from a general in lutoren us va c nes are to be preferred The amount of vaccine should repre ent the maxi mum sul reaction lose

La lure of accin th raps may be due to (1) error n the el ction of the pecific bacters or train 2) improper preparati n of the vaccine (3) trong losage or (4) an unknot a hidden focus

of infe tion Instr tion ar gi en for the collection of mate mal and the production of a potent vaccine

NOSE AND SIMISES

W WITE WD

R sh p V L A Rhin logical Study of B one! in! Astl ma In Otl Rhal & L 1 1 10 7

On the ba of an exten 1 e survey of the litera ni vile clinical experience and study the autho has prepared an etiologi al classification of He is a les them into two m in groups the a thm with modified subditions E tensi e asthmas how a definite relationship to fore en proteins hale the intrinute asthmas do not The at thor con l de f m hi study that the rhinologist obtain

his be t re ult in intrinsic asthma

Under the term untrin it asthma are grouped the b terral and reflex type. The no e and th oat have a dennit tiological relation to bacterial asthma In cases of r flex bronchial pasm the it of t mulat n m be in the nose as in hyper plasti ethmoiditis To e plain a certain type of reflex asthma the autho reviews the hist logiph si i go and ne ve me hanism of the nasal

Bishop's ases a e carefully analyzed. In intring of thma the surgical removal of foci of infection and th co et u nof pasal defects gave the best results i ersi te t ase in which all foci bave been removed ha e often been treated successfully by shrinkage and loc I medication Vaccine treatment has given indifferent results W W Laron WD

Drea W F Polypoid Tissue in the Maxillary L sug ! 19 7 xxxV1 341

Drea pres nts an analytical report on 694 con secutive roentgenograms of the accessory nasal sinuses I olypoid to sue in the antra can usually be demon trated with the \ ray A careful technique and routine stereoscopic studies are necessary for uniform results leute infections unu ually thick bom nal and an antrum that has been previously operated upon pre ent diagno tic pitfall

Of a e ies of tifty nine ca e clear antra vere found at operation in only three. In all of these cases a diagnosi of polypoid tissue in the antra had been made hy the roentgenologist. These findings support the claim that roentgenograms will give exi lence of polypoid change in most cases without the u e of or aque sub tinces In doubtful cases an onaque substance such as lipiodol may be used The article contains everal representative fornt M VOLUME IN ME centerams

MOUTH

Es hs A and Cade S Canter of the Tongue Preliminary Report on R d um T estment B 1 J S & 97

The authors report seventeen cales of tongue carcinoma treated by Regaud's methol The di appearante of the local lesion was so complit that they a fyocate ra from therapy for even early car cs ma Only squamou cells vere encountered The edematous t pe of lesion have the poorest re ults

The cell respond to rad am regardle of kary o kinetic a to its Lesions of the hip and the anterior pa t of the tongue are easer to braduate than lesions f the po te for part of the tongue or the floor of t e mouth as in the former the in is more

easil protected

The treatment is precede I by a careful an I thor ou b mo th toilet The primary growth is treated i ist and the lymphatic gland next. After the induc tion faer e block anysthesia the radium containing needles are inserted into the tongue immediately sur to nding the neoplasm and suture I in place with are silk. Fine wire passed through the second eye of the n edles are enclosed in a rubber tube and allowed to protrude between the lips to be strapped to the cheek 5 r milligrams of radium are on tained in ea h needle. The needles are left in place for from six to eight day Their number varies th the size of the lesion The total do age ranges from 600 to 1 100 mg hrs I lead plate 1 mm thick s placed between the radium and the mandible for protect on The patient is not allowed to talk. The mouth is irrigated twice daily

The authors describe the reactions with the aid of colored plates showing the various stages Radionecrosis is al o describ d

In the treatment of glandular le ions the ad vance i infiltrating masses are irradiated only and di ease but include cases of acute sinusitis. As the patients were on the medical and surgical services the le sons were more transient and associated with less destruction of tissue an I deterioration of vision than the lesions found in the eye clinic of eyen a very large hospital The examinations were made during and after the course of the disease. The author classifies the cases into three croup-

t Toxemias of mild intensity and short course (a) Dusks normal or slightly hypera mic with vessels (especially veins) slightly dilated. The e were asso ctated chiefly with influenza acute chinicis and acute sinusitis of moterate intensity (b) Average temperature 100 degrees F (c) A grage duration

from four to five days

2 Toxamias of moderate severity and longer course (a) Disks rather hyperamic margins occasignally blurred vessels definitely dilate I and often slightly tortuous. These were as ociated with i neumonia e ere sinu itis severe acute polyar thritis typhoid præmia septicumis encephalitis and meningiti (especially cerebrospinal) (b) tverage temperature from 102 to 104 degrees I' (c) Average duration from one to eight weeks and occasionally en h g in d ath

3 Toxamias of great se enits Disks with mar girs blurred by orderna and vessels quite dilated The surface of the disks often fades insensibly into the surrounding retina White streaks shot the line of nerve fiber bundles Occasionally there is retinal cedema. Lu ctate hamorrhages may occur from the finer vessel into the retina sta ces small white h retinal areas around or near the disks were seen (r tiniti septics of Roth) Occasionally ordema of the disks vas noted as a forerunner of a fran or tie reuritis (x 5 per cent) TIRGIL WESCOTT MD

Pasct eff C Tle Cystic Ph se of Glioma (Retino blastoma) to J Obbib 1927 3 4 3

The author reports a case of cy tie glome in a boy to years of age The cost appeared in the anterior chamber and was removed by or crati n When the di gnosis wa m de enucleation was urged but i as refused The boy died of recurrence and a milar casts were found also in the brain

The article is supplemented by a drawing of the gro 5 appearance and a photomicrograph of the type of cast under discussion Thou s D like M D

EAR

Fowler E P Deafness in School Childr n Dit ferential Diag osis with the Aid of Audi omet rs Examination of 1 800 Pupils i & 011 11 07 143

The data obtained from examination of the hear ing of 1 000 pupils in excellent health is recorded Group testing by means of the phonograph audi ometer was done It was found that in groups of forty as many s 150 pupils could be tested in an hou This examination was supplemented by an examination of the ear nose and throat the deter mination of bone conduction and the u of the noise apparatus or Galton whistle A standard questionnaire v as also employed Chil en shomae a lo s of nine or more sensation units werec nil me

The audiograms were classified according to types a d grades and a differential diagnosis was norled out on the basis of the history the fin hing made by inspection and the audi gram

The article is supplemented by n merous talles and graphs B M PART MD

Sturm F P Tinnitus Aurium J L gl

The author reviews a number of his or n ca es of tionitus aurium that have been relieved a holly or in part by the l cal u of atronin

Factors in the production of t partus are liscus ed. When there is an op n ext for the labymathine fi 1 ls it 1 1 spossible for inc eased pressur from the tymr anom to ruse the intralaby noth he terr on Tinnitus rare in children because the overhar gog lap of bone which narrows and mrs in lly occide the cran al aperture of the vestibular aqueduct in later If is n t present in the vo ng child In the a lult temporal bone the path of eut for th laboranthine fluid to of varying degrees of p ency The ab ence or presence of tinn to dep r 1 won the naten y of the aqueduct and in case of high vascul r r cerebroffund press re upon the mon ill of the st pes nd to some extent upon the t w d wniow A posble factor in the proliction of tinnitus may be anations i the q tity of ndol mon Os cular ten on in r latio to the prolu tion flingitust | w el W M P rox MD

Mackenzi G W I tle Exent rati nof the L by rinth I stiff thie in th Ab ence of Laby inthi e Suppuration? A Car Report L # /

Vackenzi reports a cas of chronic m ddle ca suppu at n hich was foll ed for x 100 5 primary conservati e operation as die for the rel ef of the suppurate e process Si years later a rad c lope att n for the r hel of recu ent attacks of ertigo was performed. The author i s rel ctant to destroy the h aring but Lehe that ir such II M P to MD cas it i quite justif ble

otten I det of laste on the poced municat n and revews v wus basic b cteriological principle of the e of va cin s. Re ent clim al applications of these principles re d cus ed In Eu ope utohemoth rapy h been u d of late in the tr atment of ozen In ind lent e ndi

phylaxis there has been an increase in iodine injuries Even therapeutically lodine must be used with the

greatest caution

disturt ances

In the discussion of this paper KARTAIN (Koempsher) reported upon the transplantation of thyroid by injection. He stated that no lasting effects are obtained from transference of thyroid issue or the injection of pulp. He reported three cases in which young myzodematous cretims were treated by the injection of kinkeroms were followed by the injection of kinkeroms were followed by the injection of kinkeroms were followed by the injection of the consistency injections in the great functions and a gain in weight. In the other case no effect was noted

HARMANN (Bochum) reported a case of esteo of patha cretinosa scapille. The patient a 21 year od man showed a definite cretinous habitus (infantal is not the testes etc.) The contego pocture of the shoulder joint revealed marked changes—flattening of the glenoid fossa: separation of the Cartilage changes in the structure of the coracond process and marked transparency of the bones the result of a failure in development of the bones at puberly The rooting practure shown sho dedicatedes in other parts of the self-time of the content of the parts of the self-time shown shows the parts of the self-time shown in the same group the various inalicias range from the osteochondrius of Perthes to affections of the mentalizations.

SCABELL (Bern) discu sed the pathogenesis of reported three cases of osteochondrist discense in endemic cretimism and reported three cases of osteochondrists of the knee joint occurring in pe sons with characteristic cretin oid degene ation. In the last case there was also a coxa plana (osteochondritis of Pertles). These con duons are associated with typical hypothypid of the property of the pro

HALLE (Bre lau) reported on the sprealing of gotter in Silicia. In the region of the plains the Oder and the foothills about 30 per cent of the school children ha e gotters. Of those living in the middle regions of the mountains from 30 to 50 per cent a e so affected. In the upper mountains the

used need gouter is o per cent. The occurrence of pelemics of giters in the startstom period after the ar and their c ssation after the improvement of mutt tonal cond tions does not indicate a uniform c use I gotter. There must certainly be very nuture in fact is concerned. Monage them heredity lavs a important pat. I llauke recalled a gouter pain or which broke out in an orphan asslum perhap as the result of a poorly balanced diet and cessed when the orphans we e transferred to another late. It is the superior that the program of the progr

Other in the young partners of the you g and end m gotter in the you g and end m gotter in the diffuse prenchimat us gotter me the young additional to young addit

developed gotter but its earlier stages. In Styra investigations of the normal development of the thyroid gland and of the various forms of gotter revealed the occurrence of many types of thyroids. A review of the facts shows a preponderance of colloid poor parench pinatous gotters in adolescents in the eademic belt of Styra. Similar investigations of gotter free regions should be made. Strativistic (2)

Holst J Further Contributions on the Pathology and Treatment of Toxic Goiter (Wetter B tracge zur Patholog und Therape de touschen Strumen) Ada ch arg Scend 1927 la 38

The author emphasizes the practical importance of changing the terminology for Basedow's disease and suggests the substitution of the symptomatic diagnoses primary and secondary Basedow's disease for the causal diagnoses primary and secondary thyrotoxicosis or primary and secondary thyrotoxicosis

The primary as well as the secondary thyrotoucosts 1 accounted for usually by the development of costs 1 accounted for usually by the development of epithelial tumorous tissue in the thyroid gland mostly of adenomation sature. In the primary assecondary tour goiters the adenomation tissue is of a different native both morphologically and the tour time. In experiments on tadpoles and adenomate nucleated from secondary to ic gotters they found that the substance or substance that gives must be the tour time are produced by the adenomatous it sue it elf and not by the normal ti sue sur rounding th adenoma.

The routine method of treatment in thyroid totamia h s been whenever possible radical resection at one sitting In serious cases the pinnary thirotoucous bas been first treated with Lugols solution and the e ondary cases with rest. The results from pre operative treatment with iodine have been extracted.

have been satisfactory

In forty seven cases of thyrotoxicosis thyroidec
tomy was done with one death. On re examination
of thirty seven pritients all were found to have been
benefited. All but two are now able to do their
work. Twenty six are free from clinical symptoms.

but only twel e has e a normal metabolism.

In e periments on tadoples secretion from the thyroid bed examined during the first few days after operation was found to contain thyro described to the two that the containt the two that the two that of the two that the containts of the two that of the two the two

Kenson E L The Relation of the Oral Articulatile Molements of Speech and of the Extrinsic Laryngeal Musculatue in General to the Function of the Vocal Cord 1 k Ol 1 spagel 197 v 48

The author states that the la ynx hyoid bone lower jat tongue soft palate and pharenx together

nalpable glands are resected. The authors are un decided as to the advisability of treating ly mphatics that are apparently uninvolved. In the treatment of the lymphatics Columbia paste is employed to hol ! the needles at the proper distance from the skin during the irrad ation I arts milligrams of radium are used eight hours daily for from ten to fourteeen days when the lymphatics are uninvolved. Twenty tubes of a mgm each screened with 0 65 mm of platinum at 15 mm d stance are employed in these ca es The total irradiation amounts to from a 200 to a 400 mg hrs In a hanced or inoperable cases from 60 to So mgm are used at 30 mm distance to the extent of from 14 000 to 25 000 mgm hrs o er from ten to fourteen days Superferal ulceration with seeling healing and ubsequent pigmentation follows the latter treatment

Seventeen case histories are reported. In every in stance a microscopic diagnosis was made. The lesion treatment dosage reaction and subsequent course.

are described

In summarizing the authors state that of seven teen lessons sixteen completely disappeared but no claim is made as to the permanence of their disappearance. The greatest difficulty in the manage ment of the curses is the treatment of the secondary lessons. These are probably best treated by a combination of suggests and radium.

1 JAMES LARKIN MD

NECK

Colp R 71 Treatment of D ep Infecti ns of the Subma iliary Triangle 1m J 5 4 192 i 527

Colp reviews the anatomy and surgical relations of the submaxillary triangle on the basis of li sected specimens

The most common infections in this region are superfixed and arise usually in the submanilari lymph nodes. In such ages there is no involvement

of the floor of the mouth

In cases of deep suppurat on extending to the submaxillary gland the patient is extremely ill The swelling of the submanilary region i pourced but the overlying skin is rarely reddened The tumor is hard and because of the dense fascial envelope rarely fluctuates. The mouth can be opened partially only with difficulty The tongue is elevated and flaccid In the floor of the mouth there is a tender brauny ordema These infections resem ble a cellular and involve the sublingual submaxillary and the retromand bular space patient's cond tion is not mate islly improved by local treatment within twenty four hours 1 bery is necessary In the author's opinion the only logical surgical procedure is extirpation of the subm - llary gland through an incision in the neck preferably a gland through an incision in an acceptance results in ea lateral incision. This operation results in ea sation of the dy pnaa and free drainage best anasthesia for all operative procedures is lo al I BANK I MCG W N M D anxsthest

B reher Questions of the Golter Problem (Fr sestellunge m ks piprobl m) 5 Tog d d i k Ges f Ch Be | 1917

The gotter problem is among the most interesting in the entire feld of med cine because it is so closel related to other fields of knowledge This is also th reason why all attempts to solve the problem have remained incomplete. To date attention has been centered too much upon the thyroid gland The other endocrine glands must also be considered the know very I tel as yet regarding the nature of the endocrine glands and all that we know is only a working hypothesis We know well the extracts of these glands but the complicated proce es the changing adjustments of the different glands have been touched upon only lightly The thy roid gland holds a prominent place among the organs of inter nal secretion but the behef that hie is impossible without it is erroneous as is evident from persons who have no thyroid gland. The author has a patient ho has is ed for thirty years without a thyroid gland

The chief function of thy roid activity is the control of rodine metabolism. It affects also other halogens for example the calcium picture shows definite differences according to the findings in the thyroid gland. Characteristic of the thyroid is all of its marked susceptibility to all exogenous and endogen.

enous influences Go ters may be classifed into three groups (1) the inflammatory group (2) the hyperplastic gr up and (1) the tumor gr up There are also subgroups The histological difference is much greater. The question arises as to whether goiter is an ailment or the sign of an ailment Goiter is a symptom of Basedon disease Endemic goster is a symptom a link in the endemic cretino d dege eration (gottercretinism-goiter heart which differs cons derably from the Basedow heart) The gosters in the Baltic provinces and in Brandenburg are not endemic gosters The true endemic goster is found in Switzer land in Styria and in upper Italy where occasionally the characterist c signs of degeneration are seen vithout the presence of a goiter Of interest are the transitory variatio s in the occurrence of go ter 1 these lands sometimes an increase and sometimes a decrease In Argo is an increase to the east ha occurred \ similar trend to the east has coursed also in the S is egt n (one hundred years survey) The Tura has been spared At any rate the e are certain regions hich favor the ccu rence of goiter and others which do not

As yet w do not know the cause There seems to be a relation between the geograph c d stribution and the histology all picture (diffuse nodular form). In the region of the Air 30 per cent of the cases at of the d flust type. In other regions from 80 to 90 per cent are of the nodular type.

The author is strongly opposed to iodine p ph) laxis He at tea that iodine is not a prophylact. When p operly used h never it s a good thera peutic agent. Since the introd ction of iodine pro

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Griswold R A and Jelsma F The Relationship of Chronic Subd ral Harmatom and Pachy meninglitis Harmorring on Interna A Report of Eight Cases with the Report of Finding Bile Pigment In the Harmatoma 1 ch 31 g 97

Recently emphase he ben placed upon chrome subburth humanom as a definite cluncal and parbo logic I entity. Putnam and Cushing in 1925 fe ported twel e cases and reviewed the Herature The authors report eight additional cases. In five of the cases there was a history of alcohol m and in three a history of training. In to of the others and the case that the case of the cases o

whand shouttraums and the authors believe and difference to be in the degree of organization rather than n type. In some I the cases there was a high concentration of bil juriment a finding with an interesting bearing on the theory, that the living citis of the menunge are potential if not normal such as the concerned in the formation of the properties of the menungeness of the properties and the transfer pathological conditions.

at le t under pathological conditions.

"mptoms of chronic subdural hiematomata are (i) the edu to increa ed intractanal press are vit he de h. vertico yomiting slow pulse and choked is k ani (a) the edue to localized di turbance in pathological pathol

This condit is should be considered in all cases received and the series of symptoms described and urgual tre timent should be instituted if it is indicated of the eight cases are reported. The article

to tin ph t graphs of the gross specimers and the first the first

Ball) 1 Further Remarks Concerning Tumors of the Glioma Group B II J k s II pk s II pk s II pk s II pk s

This arti I may be regarded as a supplement to Bades and (u hi gs m nograph on tumors of the

glioma group which was publi hed last year. The study and classification were undertaken in the hope that a more accurate understan ling of these tumors

might abed some light on the prognoss.

The new classification and a table showing the relationship of the new nomenclature to the old in the ten major classifications recognized in the liter ature are followed by a brief discuss ion of the types with case in longer and photomicrograph. There are also mixed or tran itional forms. As it has been and that glomata are too varied in their structure for classification the author suggests that the word grouping might be better than the term classification. Some of the transitional forms studied were so to let's allied to one or another group as to reasonably fall there is even though not entirely strucial.

Secretal of the seventeen tumors listed by Baley and Cushing as a typical have been placed in one or another group after further study. I table of the a range survival period in the ten main groups shows a variation of from fifteen month in cases of some mediulobilational to seenth vax months in cases of antiroct tomata. This demonstrates strikingly, that glomatia are not all howeless a lar e percentage of them are among the mot favorable intracramal proofils mis for surrical treatingst.

The interest and alertness of the med cal profes ion with regard to these tumors is shown by the fact that in Cushing s cl in half as many tumors have been senfed in the last three years as in the preceding twenty learn.

In cases of medulioblastomata and those of spongs oblastomata multiforme it i ad reable to push spentigen ray theraps to the limit of tolerance

In the author's opinion it is possible to subdivide the majority of glomata into groups with a character it extructure to gain some insight into the reasons for their structural variability and to attach to each group a certain prognostic significance

Symond C P Some Points in the Diagnosis and
Localization of Brain Absces J La yet C

Ot 1 9 7 xl 44

Symonds limits his di cu sion to abscesses arising from suppuration of the middle ear and situated

entirel within the dura mater. The important sign of the onset of an ab cess in the temporal lobe and in the ce eb lum is bradische Thiss occa jound and not all wis ever. Headache comiting drowsiness and slow pul c are the cardinal signs of an advanced exception or ceeb lift at slucess and signify an obstructive hidrocephalus. Besides the intermittent headache signs of local damage:

caused by the absers and a history of di charging



to a thirds of the tongue diminished saliva and hyperacusis If the paralysis develops at once after a mastoid operation the lesion is probably in the vertical bony canal If it precedes the operation it i probably inflammatory and may clear up after mastord drainage Even when the nerve is trauma tized it may recover spontaneously and ample time should be allowed for this After a year not much can be expected without surgery

The author's case was that of a man of 20 years with complete paralysis which had come on immediately after a mastoidectomy and had persisted for four months. At operation which exposed the nerve in its vertical course from the genu to the parotid gland a neuroma was found and the nerve freed in its entire course About 8 mm wa gained by chiseling away the entire vaginal process and the ner e ends were appro imated without tension The suturing was difficult because of the depth of the nerve and the narrowne s of the space \ muscle pedicle graft was turned from the sternocleido mastord to cover the uture line and fll the bony space. The patient sho el signs of impro ement within six months and at the end of sixteen month as practically entirely normal. The article includes five photographs to demonstrate the return of function including perfect facial expression. After performing the operation the author found that Nev suggested it a a possib hts in 192 although he did not perfo m at AL ERT S CRAWFORD M D

PERIPHERAL NERVES

Brickner W M Brachial Plexus Pressure by the Normal First Rib An Sug 19 7 lx vv 858

P essure on the b achial plexus or subclavian artery by a cervical rib or a band of f brous tissue extending from the end of a rudimentary cervical rib may be duplicated by the pressure of a normal first r b Many of the cases reviewed by the author had leen diagno ed as icuriti neuralgia or pro gressive muscular atrophy 1 few vere traumatic n ign but in the majo ity the symptoms devel ope i spontaneously. The symptoms were often in reuse l or br ught on by added weight in the h nd or o the shoulde In most cases the symp toms we the ame as those att sbuted to cervical r b pr u e namely pain or sensory di turba ce in the e on s pple i by the lower trunk of the bra hal plexu The trunk is formed by the et hith ervical ni first dorsal ro ts and supplies the nner a pect of the rm and forearm and the fourth and fifth finger The sens rv d sturbance noted

were coldness and weakness of the hand and pain in the arm and forearm Objectively the proto pathic sensibility was more affected than the enicritic a dis ociation described by Stopford as characteristic of nerve compression

In two cases reported by other surgeons a cervical rib was present but the pressure was due to a normal first rib and the symptoms were relieved by resec

tion of the first rib only

Of the six cases reported in this article three were due apparently to dragging of the plexus over a normal first rib These were marked by pain and parasthesia and were relieved by elevation of the shoulder and exercises to strengthen the trapezius One showed a rudimentary cervical rib on the un affected side and an apparently anomalous condition of the articulation of the sixth and seventh cerucal vertebra on both sides. In this case also relief was obtained from elevation of the shoulder In t o of the cases the affected extremity was from 34 to 1 in longer than the unaffected one but in another patient the unaffected side was longer

There were two cases showing intermittent severe pain and ordema of the extremity believed to be due to pressure on the plexus by a normal first rib In one of these spontaneous recovery occurred in a few weeks. In the other a portion of the first rib was remo ed and the symptoms ere promptly rel eved but returned six months later on the resumn tion of rather strenuous manual activity. Other nossible causes for the return of symptoms in some instances are (1) the removal of an insufficient amount of the rib (2) cally formation or adhesions (3) Intraneural fibrosis from long continue 1 pres sure and (4) the production of the symptoms by an unknown vasomotor di turbance

The incision which allows adequate exposure and is best for cosmetic results is a curved collar in cision 12 cm in length extending from near the insertion of the sternomastoid to the trapezius and crossing the plexus Retraction of the plexus must be frequently interrupted \ narrov beaked an gular rongeur is used for resecting the rib. The sca enus anticus is cut to relieve possible pres ure on the subclavian artery and the dead space is subsequently reduced by suturing the retracted portion to the undivided portion. The phrenic nerve on the scalenus anticus and the long thoracie nerve on the s alenus medius are to be ilentified and avoided in cutting the muscles Drainage is unnecessary if the wound is dry Further oblitera tion of the dead space is obtained by pressure with the gauz dressing

otitis media or a mastoid operation vith sub equent signs of an infection are of value in the early diagnosis

Suboccipital headache has some importance in the early diagnosis of cerebellar abscess A common late symptom is bifrontal or general headache Since the cerebellar abscess is usually deep in the lateral lobe there is incoordination in the movements of the hmbs on the same side Disturbance of equilibrium and a reeling gait are later developments said to be less common Nystagmus with a tendency toward deviation of the eyes away from the ide of the le ion with the quick component to the ide of the lesion is another sign of value

In the localization of a left t mooral lobe abscess in right handed persons aphasia is of outstanding value The signs of temporal lobe abscess common to both sides are slight veakness of the opposite side of the face chiefly of the lower half absence of or a decrease in the superficial reflexes and an increase in the deep reflexes 1 ith a positive or doubtful Babinski sign and a homonymous defect in the opposite visual fields the quadrants affected being tho e whi h he oppo ite the abscess as regards its situation in the superior or inferior bundle of the

ontic radiation

In cases of localized bruin abscess the cerebro spinal fluid shows an increased protein content and a moderate increase in cells mainly in the lymphocytes The chloride content is normal and sugar reducing bodies are present

Superficial abscesses following ofitis media or operation have been known to develop beneath the arachnoid membrane in the neighborhood of the Sylvian fissure and cau e jacksonian epilersy

Localized non suppurative encephalitis is the pre suppurative stage of inflammation in the formation of a brain abscess and may become arrested at this stage There is a doubt in the author's mind as to whether a localized non suppurative encephality can occur in relation to otitis media Symonds re port three cases with physical signs res mbling those of cereb al abscess The symptoms followed otitis media and in the two cases that were operated upon no abscess was found. The third fatient was natched for neeks and faally reco ered nithout CLARENCE \ B TEN M D operation

Cush ng H The Meninglomata A ising f om th Olfact ry Groo e and the Remo al by the Ald of hie tro u cery La 41 0 7 can 30

Menings mats originating in the olfa to v g oo e have been repeatedly encountered by M cenen (I land and Cru eilhier and were described by Lirchot in his cl ssical t ork on tumors

Cush ng says To know before operating not only where a growth 1 to be found but hat its nature will be must be one s aim if he is successfully and intelligently to deal with an intracranial tumor of any Lind

Menumomata of the olfacto v groove ha e been mistaken for various frouble including ethmorditis retrobulbar neunts and disturbances of the pituit re

gland In the diagnosi a syndrome of symptoms with a peculiar chronological relationship is of value There is probable first a primary anosmia of one side The second symptom is homolateral failure of vision due to primary optic atrophy caused by direct pressure on the optic nerv and the th rd symptom complete anosmia due to extension of the tumor The fourth symptom is increased intracranial tension al o due to enlargement of the tumor with sub e quent papilledems and symptoms of mental deter-Arst ton

kecently perfected technique and instruments have made the operative treatment of brain tumors much more efficient. The means for transfess n should always be in readiness. Harnostasis is brought about by the use of silver clips or pieces of muscle cut from adjacent to ue Blood from the wound can be collected conveniently by means of a suction apparatus and citrated to prevent lakin In case of dangerous exangunat on this blood can be transfused back into the patient. Among the instruments the electrocautery needle or kmi which works on the principle of coagulation or fulgiration of the tis ues is greatly superior to other means of removing bra n tumor tissue though as yet the electrocauters device is in the experimental sta

CLERKITE & RITTAL MD

Bunnell S Suture of the Paci 1N rie within the Temporal B ne with a Report of the First Succe of I (ase S & Gy & Ob 1 19 7 xt 7

This is the first report of the repair of the facial nerve by direct suture in the r gion of the middle The h torical development of facial perie anastomo is is reviewed. Faure in 1808 first per formed a spirofacial nastomosis and koerte in 1901 the first hypoglossofacial anastomosis Since 1901 many surg one have anastomo ed the spinal accessory ad hypogloss I nerves to the cut seventh nerve and recently it has become customary to suture the proxim I end of the descendens hypo gloss; to the distal cut end of the nerve used in the ma n anastomosi

The favorable results of these methods are the return of m scle tone and oluntary me em nt to the paralyzed sid of the face and the restoration of symmetry when the face is at rest. The u ta orable results are absence of emotional facial express on atrophy of the muscles who e nerve was scanned loss of the normal associated mo ements and the development of troublesome dissociated mo ements

Direct sature of the facial ner e rest res emotional expression and does not have the disad antag s of the other methods. Although it is technically difficult it should be attempted a it may be suc ce sful and if it fails nothing is lost and another method may be u ed

The selection of suitable c es is e ential Le sions above and b low th desired le el can be ruled out by careful examination of the cranial nerves Suitable cases a tho e ith c mplet f cial g raly r th aterior s s and homolat I loss f ta t

when the indications and technique become better un lerstood Jeros e R. Hew. M.D.

Sauerbruch The Origin and Surgical Treatment of Bronchlectasis (Z Frag d Entstehn unit chrugsich n B handl g on Ino hekt se) 51 Tot d 18th G 5 f Ch Be ln 927

Heretofore bronchectus has almost always been looked upon a a sequels of definite inflammatory processes of the lungs only rarch has it been regarded a of congenial origin. Sourebruch has come to the conclusion that the majority of the cases are due to congenital cysic distantions of the bronchait tree. He offers as e idence the facts that 'o percent of the bronchictuses are found in the left to relook that there is no evidence of inflammator metal to the produce of the control of the control time to the produced of the control of the time to the produced of the control of the produced thanges are seen in the bronchial tree but not in the pulmonary tissue and that the history utilly includes extrabal conditions childhood and a pneumonic disease is not demon strat!

Swerbruch cpo is four cases. In the first two he assum if the cuttern of residual empty men acutties at the fore performed a thoracotom. It proved he that the casties we can the lung. Froit ing it the septence can the first to cross he made the day, os of pulmonary costs even before the operation. The camination of the cysts revealed the sam at uct rea, a that of congenital bronchial custs (chap er a the epith, lunn of the bronch with

intact (ulm arv ti sue)

the first securities of bronchistass in the left first sent occurrence of bronchistass in the left first blob be planned by embrodied of the left first firs

i formed

lerso the engental br nehial cysts may not le rs II (3)4 the occurrence of a fection makes the min al I and leal to chr nic die ae. In the hronic t g a u e can be obtain I only by resect in I the I er lobe. Swierbruch doe this as a matte of r utine.

I'l f L H B onchiectasi Associ ted with D ease of the \(^1\)asal \(^1\)c essory \(^1\)sin \(^1\)tilde (1) and \(^1\)brack \(^1\)tilde (1) \(^1

t # Off flo 8

The uth dicus es the theory original ad

n e l b Mail n that infection of the n sal accessor es is the cause of certain cases of two chects; I have the command an that infection the cital from the in east the bronche either by the limph tick which dams to the cins and thence to the right h art a l lu gs or by direct aspiration. In me the citalbash l act n c bronch its which I have the citalbash lact n c bronch its which

eventually produce veakening and dilatation of the bronchi. Mullin found involvement of the sinu e in practically all cases of bronchiectasis observed by him. The author cites as confirmatory evidence the Fronchoscopic finding of lary ngol tracheobronchitis in cases of accessors sinus infection. He believes that

the clinical and experimental evidence is sufficient to warrant the acceptance of Mullin s theory He believes at a however that bronchiectasis is often due to pneumonia influenza foreign body

abscess and tuberculosis

The cases secondar, to sinus disease usually have a history of producture cough from an infection in childhood or an attack of influenza. There may or may not be a history of nasal symptoms but the nasal condition is recealed all says by examination Examination of the che t commonly shows blatteral involvement of the lower lobes and sometimes of the mid-lied be. The bronchiertests may be explicitly or sacculated and commonly involves the terminal bronchioles.

Attention: called especially to the cases of children vho ha e recurrent cold and a persistent non productive cough. Frequently such children show bronchiet as:

Cleri belie es that in these cases bronchiect as:

If follow unless it is prevented by the freatment of infected simuses and endobronchial medication.

All patients vith bronchiectisis should be evamined for diede of the accessory sinuses and if this is found hould be given proper treatment. Even if the sign condition is not the cause of the bronchiecta is it probably affects its course unfavorably Jenove R. Head M.D.

As hner P W Embolic and Metastatic Phenomena in Pleural and Pulmonary Infections
t 5 4 92 lvv 4

The author comments upon the well reco nized frequency of embolic ab cess of the brain secondary to pulmonary and pleural uppuration and of cere bral air embol sim occurring during, thoracie operations the irrigation and idre sing of thoracie wounds r luring simple exploratory asylitation.

Taking it for granted that these are caused by the entrance of clots or air not the system or circulation from the pulmonary veins be dissue as the subject with regard to the following que tions: I bo embol from the julmonary circulation lodge in parts other than the brain? 2 the such embol also assigning that the properties of the pr

Cases bearing upon these points are cited and the following conclusions are drawn.

The peripheral complications of pleural and pul

monary infections may be classified as embelic (dislodgment of septic or a septic clots) and metastat ic (bacteramia from a facus in the pulmonary

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cheatle Si G L The Important Early Symptoms in D seases of the Brea t B / M J 9 7 1 47

This article begins with an academic discussion of the various elements of the breast structure vinchings undergo hyperplasis and give rice to nodules and the variety of stimuli which may occas on the

The practical part of the article is concerned with the early symptoms of breast carcinoma. According to the author, the most important of these are

r a Nodularity localized to one part of the breast or more marked in one part b A lump in the breast (who the lasses); and late accompanying signs of retraction of skin and glands in the apilla). He warms against mistaking nodularity of the over lying fat for nodularity of the breast proper. Existing a sign of the signs of the s

2 Pain The author bele es this a common early symptom and thinks that a lancingting pain in one part of the breast is a sufficient indication for

exploratory operation

hypernlasia

3 A spontaneou intermittent discharge of blood or serum from the nipple. This may be caused by a duct extenionma a carcinoma deep in the terminal ducts and a mi and duct pipillomata. Since these conditions are either cancerous or pre-cantenous simple amputation of the breast 1 indicated even if no lumps or nodules are jalpable.

4 Cradual retraction of the nipple This 1 an ind cation for exploration JE ONE R HE D M D

TRACHEA LUNGS AND PLEURA

Holman E. Tuberculous Pulm n ry Suppuration Clinical nd Experimental Cons derations \(\frac{th}{t}\) it led 1927 xx 327

\ h | 1 Ved 1917 xx 327

Holman reviews the history and atjouale of the surgical treatment of pulmonary tuberculosis and

reports the results of experiments in the production of pulm nary tuberculosi in does

Carson of Liverpool in 1821 was the first to suggest that the healing of utbreetious pulmonary lessons much be facilitated by collapse of the lung by artificial pulmonary on the resection of the Not until 1832 a sa artificial pneumothorar or to covered by Forlaman and successfully applied. De Cercaville in 1863 a sa the first to intempt to secur rest and cellapse by presented to intempt to secur rest and cellapse by presented by the same to 1 to effort the collapse of large special ca ties. Branch and Frendrich recognized the necess by for more exit no resections. In 1839, Counded showed e perimentally, that the

most effective method of narrowing the thorses

cause is the removal of actions of the ribs potential and are the upon the transverse powers of the vertebre. Wim in 1934 made use of the principle and essected posts; or to eleventh or include through a flog paraverte brid incition. Soughruch along paraverte that incition. Soughruch along the premium and a red performing it in two slages, along the principle in many in tances by extration of the places of the course for the course of the flower between the course of the

These three procedures artificial pneumothous the extrapleural th racoplasty of Walms and extraction of the phreuse nere have be come the accepted methods in the surgest treatment of pulmonar taberculosm. The pranciple underlying all of them of towards and favor the throoss of active the one of towars and favor the throoss of active the one of the three of the contract of the con

the disphragm against the lung. Utilized potentially and indicated in all pre-dominantly unsisteral case, of pulmonary lubercu loss; which do not yield readily to routine rest literapy. The disadvanta es of this method are that the necessity for frequent restill the possibility of reactive tion of the process on e-expansion of the lung the development of serious effusions in o per cent of the cases a did prunished intensions and application in many exists in which codaptes is relicated. It is applicable his were in many active cases in which the condition of the patient contra

indicates thoracoplasty

With thorac plasty the best re ults are obtained when the leason 1 of the proof citive flo of type. The operation 1 ind cated in the I llowin groups of cases (2) those in which flows and real tablets are cased to the cated the cated that the cate

Of 1 : 50 patients subjected to thorac plasts were studied to Meia der 56 per ent et cured 2; 4 per cont wer benefited 104 per ent meter not benefited o were made worse and pet cent died tha the first 1 o month after the operation It is 10 activation of the operation of the per cent of the per cent of the control of the per cent of

This produces until the electrode comes into view necross of the growth so that the lumen becomes large enough for the passage of ordinary foods The author states that by the procedure life can be pro longed and made comfortable and a gastrostomy avoided He has used the method for t o years but does not report the number of cases treated It is not applicable unless the constriction is annular

HADFIELD describes the pathological picture seen in the esophagus of a patient who died seventeen days after being treated by diothermy as described Death occurred from sudden cardiac failure and was

not in any way the result of the treatment The diathermy had destroyed the mass of car cinomatous tissue seen during life to project into the lumen of the tube and there was left a granulating ulcer the surface of which as on the same level as the normal mucosa above and belov No steno is vas present. The effect of the treatment on the muscle un lerlying the growth , as to cause a wide spread inflammatory reaction which in some places hal almost buried the carcinomatous infiltrations with inflammatory cell but in other places had left

them practically unaffected

Sourrag states that the ersophagus is the site of 4 per cent of all malignant lesions The annual mortality in England and Wales from this condition is 1 600 deaths 1 200 of which are those of males The problem of treatment and alleviation is there fore important. In men cancer of the resonhagus is a di case of later life occurrang in of per cent of the cases after the age of 45 years and in 88 per cent after the age of so years and being most common between the age of 6, and o years In women th incidence of the lesion is highest bet veen the ages of 40 and 5 years and 9 per cent of the cases are the e of patients under 40 years of age. In women the site of the growth 1 more comm nly at the upper end of the esophagus bereas in men it i at the lo er end

The gro this usually a squamous cell epithelioma but there; a rarer medullary form arising from the gian is an i a still rare columnar type which usually exten I up and from the cardiac end of the stomach VII I these sp ead by the lymphatics and tend to grot rot I the lumen and cause steno is They may int leas much so in f the tube

I rom his tudy of the pathology in ghteen cases which came t autops, the autho c neludes that rather than a dis a e of lo malignancy as is generally believed to comma of the asyntagus is highly malignant and fail to produce widespread meta tases nly because the local gr th by involv in neighbor g vital organs kills so quickly. If bele s that in mo t in tances the condition is beyon i su gi al cure soon after the appearance of In e ght en cases in hich the aver go du ation of symptoms ranged f om fou to se en months the causes of death ne e in asi n of the lungs in four perforats n of a br nchus in three perforation of the t ache 1 th er perforati n of the a rta in one hamorrhage f om the g outh in one

subphrenic abscess in one metastases to the brain in one and exhaustion and pneumonia in four

These findings have led Souttar to conclude that surgical cure is out of the question For palliation he has devised a method of intubation with a flexible silver wire tube which is inserted through the esophagoscope With the tube in place the patient can continue to st allow ordinary foods until death from the natural course of the disease

In fifty cases there was a mortality of 4 per cent The mortality following gastrostomy in twenty cases was over 30 per cent (seven deaths)

TEROME R HEAD MID

MISCELLANEOUS

Committee of the National Tuberculos a Associa tion Report on Clinical and Roentgen Ray Findings in the Healthy Adult Chest Am J

R nir nol 1927 xvu 5 7

Following the report of the Committee of the National Tuberculosis Association on the chest of the healthy child in 1922 the same committee was requested to continue their study on the healthy adult chest The committee consisted of H K Pancoast and H R M Landis of the University of Pennsylvania F H Baetier and C Austrian of the Johns Hopkins University and H K Dunham and Roger Morris University of

The intermist members of the Committee submitted 280 persons with clinically healthy chests to the roentgenologists of the committee for study For puroses of companison these persons were divided into two groups those between 18 and to years of age being placed in one group and those who were older in the other group

It was found that calcification of the costal cartilages and scoliosis of mild degree have no signif scance and that in emphysema and deep breathers the ribs are no farther apart but come off from the spine at more nearly a right angle and are more nearly horizontal

The right dome of the diaphragm is about 1 cm higher than the left in full inspiration Regular in equalities or waves in a dome of normal level are due to different levels of attachment. Inequalities of the upper surface of the liver may prove an exception on the right side. Sharp peaks are due to abnormal attachments such as pleural adhesions

The top of the agrue shadow was found to reach a level lying between the fourth and the sixth thoracic vertebræ and in two thirds of the cases to be at the level of the body of the fifth vertebra A description of the level of the bifurcations of the trachea should be that of the carana This was found to vary between the bodies of the fifth and seventh thoracic vertebræ In about two-thirds of the cases it was at the level of the sixth vertebra The outer boundary of the hilus shadow is rather uncertain but roughly it is regarded as extending to a line limiting the inner zone or third of the lung

veins) The embolic compliations may be sentic or asentic They may occur in both suppurative or non suppurative lung infections but are more com mon in the latter They are referable to thrombotic and phienitic lesions of the pulmonary veins They may involve not only the brain but also the arteries of the extremities They may involve the spleen and the kidneys In cases of empyema the embolic complication should be referred to the underlying pulmonary d sease rather than to the empyema In all of sixty nine cases of empyema coming to autopsy

inflammatory lesions were present in the lungs Metastatic infections of the soft parts joints epiphyses and flat hones occur in pleural and pul

monary infections

The clinical observation of the association of embolic phenomena with hamoptisis and nost operative hamorrhage is in accordance with the postmortem evidence of vascular lesions in the lung parenchyma as the underlying causative factor of such phenomena TEROME R HEAD MID

Allen D S The Etiology of Empyema Haemo thorax in Idiopathic and Postoperati e Em pyema Sirg Gync & Obst 927 xl 3

It has been noted that experimental contamina tion of the pleural cavity by the injection of a bacterial suspension seldom produces empyema Other factors seem to be necessary for the produc tion of this condition. The role of the closed pneumothorax has already received due attention but the significance of the hæmothorax following a clean thoracotomy has failed to receive sufficient consider

The author first noted the importance of a remaining hamothorax in the causation of empy ema during an experimental series of transpleural cardiac operations. In subsequent experiments he found that the injection into the pleural cavity of the hemolytic strentococcus with a small amount of blood resulted in empyema in every instance whereas when merely the bacterial suspension was injected the incidence of emptema was much lower A similar series in which an unattenuated Pneumococcus III was used resulted in the same findings. A total of 150 experimental observations is recorded in the series. In forty expe ments in which the pleural cavity was contaminated by virul nt bac tena in the presence of a hamother x emprema d eloped in 100 per cent Of t enty four nitral animal in which the same batteria were used with out a emaining hamothorax only 13 pe cent devel oped empyema When only very sh ht hemothorax is asso lated with the pesence of bacteria th incidence of emprema is us ally loner

The author 1 of the opinion that id opath c empyema follo sing pneumonia is due to the intru sion of blood into the pleural cavity as the result of the rubb or together of the offamed pleural mem branes or the rupture of small vessels by coughing The green color of early cales of meumococcal emprema is due to a de at e of hamoglobin of the

red blood cells-methamoglobin At autorsy follow ing pneumoco cal empyema the pleural cavity is frequently found covered with granulation tissue and sho is the presence of gross blood. The author concludes from this that idionathic emprema may be ushered in by a spontaneous bemotherax which is or becomes injected with the pneumococcus or st eptococcus RO ERICK V GR CE MD

ESOPHAGUS AND MEDIASTINUM

No lén S A C se of Esoph ge I Peptic Ulc r Act h r 18 5 8 927 1

A man as years of age had been trouble I for ten years with indef nite abdominal symptoms as or ated with vomiting and malaise and recently had shown signs of progress ve anæmia which was verthed by examination of the blood Suddenly he was taken ill with clinical symptoms resembling those of peritoritis due to the perfo ation of a castne picer A laparotomy was performed but the findings were negative. The patient died after havin been ill for about sixteen hours. After the operation the

pre-operative symptoms persisted and during the la t few hours there were in addition pains in the chest and subcutaneous emphysema of the chest as I Autons, revealed in the resonhagus just above the

cardiac end a large ulcer which had perforated into the mediastinum and the left pleural cas ty The pleural cavity contained air and entricular flu i

Microscopic examination showed the ulcer to ha & the type al appearance o a peptic ulcer with ch on \$ as well a acute inflammatory changes At the ed es of its base the strat fied epithehum which normally covers the or ophageal mucous membrane was lacking and there vere cardiac glands and typical fundus glands with columnar and hydrochlo ic acid prod cing cubical cell

In the author's opinion this structure of the mucous membrane plays a important part in the production of peptic ulcer of the ersophagus Ilis assumption is suppo ted by cases reported in the literature in which island of gastric mucous mem brane were found in peptic ulcers of Meckels diverticul m

Wright A J and H dfi ld G. Carcin ma f the Esoph g s Treatment by Dl thermy B Soutta 11 5 The T entra nt of Ca inoms of the (Esophagus Ba if on 100 Persons) Cases and Eig) teen Io tmortem Report B # J

76 Wat its describes a method which he de used for the palliate tratm t f ca rinom f the resoph

agas with dathermy and r drect as n through specially c nstru ted boags the resorbagose pe fitted ith a diath rm el trode pas d'beyond the stricture and I in ba k until it fits a gly again t the lo er bout of the latter The cu rent is then tur ed on and the bouge d a n teadily out

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

R senblatt \(\mathbb{N} \) and Cooksey \(\mathbb{N} \) B \(\text{Muscle fascia Suture in Hernia } \(4 \, n \, S \) \(192 \)

In the literature of herma, the advisibility of suture, gref muscle to white fascia is questioned. When this was done experimentally in dogs, firm up on resulted in all cases in which the arcolar tissue was removed from the muscle and fascia before the suturing.

The general type of union 1 the same as that letween fascia and fascia

In her 12 1 18 not always necessary to suture muscle to fasta but when indicated such a suture may be reled upon if the areolar tissue 18 first removed SAMUEL KAN MID

Dewis J W and Miller R If Hernia through the Foramen of Winslow Repo to a Case with Refe ence to Thirty Three Other Cases Collected from the Literature S z Gy t w Obi o 7 1 os

It may the ugh the foramen of Was lo is a rate cond in there being only thirty three cases re to ted in the I terature. The chology is debatable that in the reported case there was usual enlargement of the for men sociated with undue mobility of the init, time. The symptoms which are generally acut acceptable in sometimen of tripation and

ep as the fundation. The uthor case with a history of symptoms of evente n've r's luratin nuggests the po ail, hist of pont neous reduction and hermation at intensition at intensition at the condition and hermation at the surgical interference precel I by gas in lava e. Trat in from bels or precure it or all new those without a intration of the boyle condition that the surgical interference the hermation of the boyle condition to the surgical trained in the surgical production of the boyle conditions are not only the surgical form the surgical forms of the surgical

tra e mn tin f the authors patient in an interval pen I was n i ungestive of the condition

Riemal Cale MD

or i fered

Bo in E On Fibrom omata in the Mes nter;

The author reports a ca e it wo f broleiom; omita we fining together s 2 kgm which developed in the train its enescedon and were not connected the the intestine r any other organ containing untiful finite training united in the containing un-

The patt at an gravila 29 years of age reco ered from the ope at a for the remo at of the tumors and e en months later ga e bith to a child righ as a kem

GASTRO INTESTINAL TRACT

Martin Veau Bréchot Mouchet and Fredet Ilv pertrophic Stenc is of the Fylorus (> r l st n s h pertrophique du pvl re) Bill 1 mém Soc of de ch 927 liu 324

MARTIN reviews twenty-one cases of byger trophic stenois of the pylorus. Twenty of the patterns were males. The age of the patients ranged from 28 to 60 dars. The clinical amounts was confirmed at operation every case. Chloroform anasthesia as assed in the first case and selective the control of the contr

In the first name cases \ artim made a midline micsion in the upper part of the abdomen The distended stomach could be largely extenorized In the other cases he made a very high paramedian in cision on the right side beginning on the lover thorax. The perintorium was incread over the list. The olive shaped piptoris just under the gall bladder was easily dissected with the and of forcers without grasping the piptoris with the integers. The similarities and the transactive colon were not seen. The abdomen was closed in one layer with sit perintendent of the color of the co

The operative c implications in these cases are harmorphage opening of the duotenal muto a and exisceration. Bleed mg is not all vays manifested at a operation and can be largely presented by immight procedure to the anisotalization. A lite oo ing from endenations mude can be controlled by one or two sutures. When the duodenal mucous as operated—a senious accident—it should be closed. In two of Martin's cases in which this occurred re-over; resulted "susceration is best pre-ented by making a high incision on the liver or waistr Ombré dannes stechnique."

In most of Martins exists there was postoperative fever. There patients dod—one after is ently seven hours with bloody fluid in the peritorial cavity another after its hours and the third after nucleten dass with bronchopneumonal purulent vagi its anilary obserss and persistent vomiting. The third child wa one of tunns and was bottle fed.

A favorable prognosis depends chiefly on early operation performed within eight to a n days after the onset of the conditi n. In cases in which operation is performed late the progno is is less favorable especially if the infant has so to one third its birth weight.

field. The extent of the hilus shadow from above downward is approximately two interspaces and a rib on the right side and slightly less on the left side.

The trunk shadows were commonly found to be come more prominent with advancing years. This is an increase in density rather than in width it was generally agreed that thickening or increased prominence of the trunks to the apices is unusual in the healthy chest.

Calcifications were almost aleasy noted in one or both hila. In the absence of evidence of pul monary di ease they were disregarded except as evidence of pait infection. The so-called inverted comma was also frequently found and was usually on the right side. It is a normal appearance never representing a pathological condition.

The lateral view of the cless showed that the anterior border of the heart shadow is in contact with the anterior chest wall for a variable distance from b low upward. The heart shadow was super imposed upon the shadow of the anterior half of the diaphragm. In the posterior cardiophrene angle there was a faint shadow which was probably a composite one produced by the inferior vera cava.

the phrenopercardial ligaments and possibly side some fluid contained in a culd-ease. The ruled six is slightly to the left of the midine and formed by a reflection of the posterior percardium at the reflection infer or aspect of the heart. The posterior rules or aspect of the heart. The posterior propercies is from 6 to 8 cm lower than phrenic solicies is from 6 to 8 cm lower than staterior in thin persons and about 4 cm lower is sout persons. The right bronchus is anterior to life left. The distance between the ascending and cescendin arches of the aorta increases with are

The following recommendations and sug estions

are made to roentgenologists

r The term dome of the daphragm should be used in preference to diaphragm to des nhe the curving shadow cast by that muscle

2 All measurements made for the location of the apex or size of the heart should be made from the

midine of the body
3. An idea of the depth of the bilum as ell as its

length and width should be acqui ed from stereoscopic or lateral view study

4 Familiarity with the lateral view of the healthy chest is an excellent basis for the recognition of pathological changes Charles H Heacock M D

Morton C B Observations on Peptic Ulcer

Some of the previous work on autoplastic trans plantation of patches of jejunum into the walls of the stomach and on the experimental production of

peptic ulcers 1 reviewed

"Trenty one experiments on dogs are described in which satches of sejumin with infact mesenteric creations were transplanted into the wall of the sommet at surous points and observed for periods as long as four hundred and maeteen days. All of the patches except one fremanced in normal condition. In the one e ception a chronic peptic ulter deceloged in a patch in the fesser curvature of the

In thereen experiments patches that had remained pormal for long period up to four bundred and uncleen days were subjected to the acid allimbala ce in the stomach resulting from surgical duodenal drainage. The patches were in various regions of the stomach Lexcept for a superficial ero ion which developed in a patch in the anterior wall of the stomach Lexcept for a superficial or to the lexibility of the patches and the patches in the students of the patches in the situation

The acid al an imbalance in the stomach and a liacent intestine resulting from surgical duodenal

dramage and the relate it exposed position of the lesser ut ature in relation to trauma in the empty ing process in the stomach are suggested as being important factors explaining the presence and site of the ulcers found in the experiments. The possible relation of these factors to clinical problems 1 mentioned

Bru tt H B cteriolog cal Points of V ew on the Problem: freection of Pe forsted Gastricand D odenal Uice s (Bakt nologische Ge hip nich fe de Rischt nich perforition Vigen D od 1 ch wis) B i his Ck 9 7 tax 60

Bruett is of the opinion that in late cases of per frated gastrie and duodenal ulicet the cause of the higher mortality is not the longer duration of the per tonutis but the difference in its character as compared with early personness. In this he agrees with Loebt From his expenseric Bruett concludes that it personness occurring in the first ten to take hours; as I ardistively harmless nature in the great in joint of cases its prognosis be ig good as compared with that of other types of perstoning

ben operation is performed at the right time. He recommends radical procedures in early cases not found that consists a facility of the recommendation of

in cases of perforated ulcer resection is the operation of choice. It must now be determined whether and under what conditions this operation may be performed without injury

Becausing a learning to the abdominal models replains who such a radical operation as reaction is to be recommended in early cases of a reaction is to be recommended in early cases of a reaction is to be recommended in early cases of a reaction who have the rest from 1020 to 10 6 resection was performed in fifty fix e v. the eight deaths a mortality of 14 5 per cent while gastro enterostomy with thirty one deaths a mortality of 55 per cent. This therefore 14 8 per cent thirty one deaths a mortality of 55 per cent. The total mortality in these 112 cases was therefore 14 8 per cent that the control of the simple operation is replained by the fact that resection was done only in the more favorable cases y hereas gastro-entered town was done in the late cases.

When resection was performed in the first six hours after the perforation the mortality was only 3 8 per cent practically the same as that of re ection for chronic ulcer In fourteen cases in which resec tion was done between the sixth and twelfth hours after the perforation the mortality vas 14 per cent (two deaths) In cases treated by gastro-enteros toms within the first six hours after the perforation the mortality was 2 per cent (three deaths in eleven cases) and in those so treated between the 1xth and twelfth hours after the perforation it v as 20 per cent (four deaths in fourteen cases). The higher mortality following gastro enterostomy in the early cases (between the first and sixth hours after per foration) a explained by complications-severe harmorrhages occurring before during and after the perforation and after the operation particularly emphasized that peritonitis was not the cause of death in these cases

When resection was done twelve hours after the perforation the mortality was 0 per cent (four deaths in twelve cases) whereas when gastro emerostomy was done after the same lapse of the twenty two cases) In cases in which the time since the perforation was not determined the mortality of section was 1 per cent (one death in three cases) and that of gastro enterostomy was 0 per cent

(nine deaths in ten cases)

Of great interest was the determination that the prognosis depends to a considerable degree on the bacteriological findings in the abdominat routher. In sucheen cases treated by resection and tracted by a section of the state of the state



should be carried out in the anterior position and combined with jejunojejunostomy

After the operation no food should be given for several days. Fluids should be administered by podermochysis and if necessary intravenously Lavage of the stomachis de itable even as a routine

on the first day

The operative mortality is much improved by
pre operative care and by co-operation with the
physician. To illustrate this fact reference is made
to a sense of forty art consecutive cases of partial
astrictiony for cancer of the stomach with one
death and to 128 cases of cancer treated by partial
gastrectiony in 1296 in which there were eight

deaths

The oil results in the series of 1 000 cases are discussed to the patients without lymph node involvement 52 per cent were alive at the end of three years whereas of the c with such involvement only 100 per cent survived that long

Bothe F A Lympt atic In observent in Cases of Carcinoma of the Pyloric End of the Stomach S t Gy ec Obt o 7 xli 76x

The author has studied too cases of carcinoma of the pylonic end of the stomach with involvement of the pergastine lymph nodes in a thick a portion of the stomach including the growth had been resected. There was no evidence of metastasis to more distant hymph nodes or dajacent organs. In every case the infected enoplasm the affected pergastic lymph nodes an observed the affected pergastic lymph nodes and other the state of the control o

The size type and situation of the growth and the s te and relative size of all of the lymph nodes were noted

In the oo specimens examined \$24 lymph nodes ere foun! Eighty five pe cent of these we e determined to be carcinomatous. Those s turted lose to the entrance of the coronary vessels n the lesser curvature and those close to the pylorus n the g eater curvature w re found to be involved most consi tently The nodes on the lesser curva tu e were affected in ge per cent those on the greater curvature in 69 per cent and those on both cu vatures in 60 per cent. The size of the nodes seemed to be r no definite relation to their involve ment In twelve specimens the largest nodes observed were not affected whereas smaller ones were In thirty eight specimens nodes were found whi h although not affected were considerably la ge than some in the same specimen that were The author noted in agreement with other that ca cinoma cells are f und in the pe riphe al si uses et ly in the lymphatic involvement

Mo e than half of the growth's ver found on the le er en valure and about one third were annular a d situited just above the pylorus The posterio vall and the greater curvature ere flected in telat vely few cases. The situation of the growth

does not always determine the site of the lymphatic involvement as there were a number of cases in which a growth on the lesser curvature was associated with relatively greater involvement of the nodes of the greater curvature. It is apparent also that the site of the growth did not determine the extent of the lymphatic involvement.

Perman E The Ac dity in the Stomach After Gastro Enterostomy and Resection Acta ch 1 g Scand 1927 lm 465

A gastric fistula is a valuable and in operations on the stomach. It decreases the danger of leakage by relieving the tension exerted on the suture line by stagnating ventricular contents. The patient is allowed to take fluids by mouth. Nausea and vomit ing are prevented. It is never necessary to introduce a stomach this by mouth.

The author reforts cases of gastic operation with faitule in which the autility was determined in thirteen cases in which pastic enterestionty was performed he found high values immediately after the operation. In several instances these were higher than in cases in which gastic enterestiony was not done. This prove the task of greater was not done. This prove the task of greater was not done the provided of the provided of the provided of the pastic pa

As the loss of hydrochloric acid through the fistula is associated with the danger of gastric tetany it is necessary to estimate this loss and compensate for it by administering sodium chloride solution.

D aloszynski The Postoperative Roentgen Pic ture (Das po toperati e Roentgenbild) 51 Tog d d 11 ch Ges f Ch r Be bn 19 7

One hundred patients who were operated upon on Meyer's service by the Billioth II method with the Reichel modification were re-examined roentgeno graphically after four or five months. In none of the cases did a peptic ulter develop. In a few cases there vere-symptoms due to the small size of the stomach In only two cases was the emptying of the stomach retarded in the others it was all all as catefacted. In the others it was all all as catefacted. In content of the others were supprised after a time. In order to return a sprantate after a time. In order to return a sprantate different symptoms the afferent loop was released and an entered anastemous was done.

In the discus on of this report Staikhas (Nuere burgl emphasized the fact that attention must be paid to the cleft in the mesocolon. He has usually boserved that after resections of the stomach there is formed a sphincter like occlusion which prevents to rard emptyin of the gattic coatents. The danger of peptic ulcer is especially great a hen too little of the coatened of the coa

KIR CHNER (Koenigsberg) reported that in \ ray examinations of the stomach made as soon after the

there were four deaths) they were found with hamoly tie streptococci and green producing staphy lococci In one case treated by resection with recovery non hamolytic streptococci nere found In five cases treated by resection with two deaths and in seven cases treated by gastro enterestomy with three deaths colon bacilli were obtained in pure and mixed cultures Yeasts in pure culture were found in two cases of re ection with recovery and in one case treated by gastro enterostom; with recavery Other bacteria-gram positive serobic bacilli staphylococci and streptococcus mucosusvere found in two cases treated by resection with one death and in four cases treated by gastro enteres tomy with two deaths. In twenty lour cases no bacteriological examinations were made. In four cases treated by gastro enterostomy with one death oneumococca were present

From these findings the author con ludes that peritoneal infection with green producing strepto cocci is not without importance even a hen the our tonites is mili In ti enty one cases of this type in which resection was done there were three deathstwo from peritonitis and one from pselephlebitis with liver ab cesses after four weeks (no bacteriolog ical tind nes at autopsy) One of the deaths from peritonitis was that of a patient 40 years of age whose r sistance was noor. In eleven cases with green p oducing streptococci which were treated by gas tro-enterpatomy there vere four deaths. In these cases there yere complications (severe animia after ulcer hamorrhage) but peritonitis was also responsible for the fital outcome. In a case of forty eight duration only green producing streptococci were found

Infection with hamolytic streptococci is serious in each it c ses there were six deaths. These included two crises operated upon from six to twelve hours after the p floration with one death and six cases of loner duration with five deaths.

least infe tion always pro ed harm ess. Strep tococcus mucosus infection was fatal. Anaerobic streptococci and anaerobic g am positive bacilli were all o disco ere!

In contast to Locke the author found a fe v colon bacilli n 35 per cent of the xudates that were otherwise sterile and in 46 per cent of the videtes that were otherwise sterile and in 46 per cent of thore yelding green producing sterile occopy from one to sit whose after the perforation also in m wed infections with yearst staphylococca (CI 05 st 1) seed to see in 1 bich a bacteriolo ical examination was made from one to twel chours after the perforation be found colon bacilli in five One of the latter cases was stail

In the cases which were operated upon from 3s to tool e hours after the perfortion Direct found a sterile erudate n only 26 per cent. About half of these cases, yelded green producing streptococc in pure culture and 1st per cent at we de a necessar neclos bacillo 0th the cases me than tuelve hours old only 7 per cent had a sterile exudat. In that cases green producing streptococce were ob

tained in pure culture in 2 per cent and with other bacteria not infrequently Very striking was the presence of colon bacille which the author agrees with Loche reach the stomach from the lower intestine as the result of peritoneal paralysis of the intestine.

With regard to the great sensitivity of the harmolytic streptococci to and Brieft differs from Loody Brieft found that the streptococus will grow in a nutrient med um with the and ty of nor mal gastre, inuce to 9 to 0 4 per cent). He was ne er able to find free hydrochloric acid in the abdomine evident.

In conclusion Brusett refers with regard to the green producing streptocone found by him green producing streptocone found by him green producing streptocone found in the process of the themann in the best opinion is expressed that these organi ma which are discovered so frequently in the mouth stomach and discovered so frequently in the ble pas ages are not a single strain but prob bly in clude the letter and streptocorcu, neterocorcus said

streptococcus viridans
Bruett's noth is a valuable bacterological con
tribution and offers further support of Leeby;
theory that the prognoss of perforated gestine ther
is not a technical but a biological problem. It depends upon the bacterial conterts of the abdomi
nal evudate which is dependent upon the acidity
(hydrogen no concentration) of the stomest abt
time of the perforation and may change qualitat it it
time of the perforation and may change qualitate.

Railfour D C and Hargis E H Cancer of the

The authors review the general problem of cancer of the stoma h on the basis of a series of coor cases. In the early course of the condition a class in the gastine activity and the occurrence of symptoms of obstruction are inconstant. Reingen as examination is an almost infallible meth d of diagnoss a d should never be omitted.

Unites there is lear endence of metastasis oper tim is justifiable. Exploration at least as und t taken in more than hall of the cases renewed and n almost half of these the growth was removed. Obe up a serma rapi loss of weight and joulh fulness of the patient add to the risk or operation and diminish the prospect of cure.

The liberal administration of food and fluids cominned with rest in bed and the intravenous use of sodium chlori to and glucose before operation tend to reduce the risks and enhance the pro peets of a good result

Regional auxisthes a nill suffice for in 1 ion and exploration but general auxisthesia is necess in it a difficult rese ton esp fally f the patient is apprehens ye

The tyres of recett n are disc sed Of the methods of restor 1 to continuity of the gastro intestinal tract the authors prefer gast openual anastomo s When the gastros stump is small this

closed as one layer around a drain from the cul de sac of Douglas with bronze sutures

Except for suppuration in the lower third of the wound and sloughing of a piece of aponeurosis the postoperative course was uneventful. The patient recovered completely and returned to nork. The specimen showed no obstruction to account for the intussusception

Case 2 was that of a noman 38 years of age who after fifteen day period of diff culty in defæcation develope I abdominal colic with vomiting and inter mittent diarrhone stool which lasted for several days At the time of examination the abdomen was soft the temperature 37 6 degrees C and the nalse to The pain which was limited to the right side of the abdomen was most intense above McBurney s point where a mass t o fingerbreadths wide an 18 cm long could be palpated The tumor had som lateral movement. The passage of a black bloody stool led to the diagnosis of intussusception The col cky pain in th umbilious radiated to the night that fossa. The abdomen was only slightly distended. The temperature increased to 38 3 deerees (and the pulse to 110

Operation re ealed in the ileum which was in vaginated half way up the ascending colon without invagination of the cocum or appendig an ileo ileal ritus u ception about 10 to 15 cm from the ileo carcal val e. The invaginations were reduced. No causati e factor was found. Two small gangrenous areas vere tur ed in under sutures and the rather mobile carcum was fixed by suturing the external

band to an incised peritoneal surface Reco ery which as ultimately complete was delayed by a slight pulmonary complication. The bo els mos d pontaneously on the third day but

the patient remained slightly constinated and cardiac extrasystoles were noted

Case 3 was that of a man aged 4 years who ga e a history of nausea vomiting and abdominal pain localized in the epigastrium and right hypochon drum for t o days The abdomen was motionle s during respiration and retract d. Labration caused acute pain slightl abo e McBurney's point. The abdominal wall as soft in the right that f ssa but distinctly contracted in the region of the upper right rectu The temperature as 388 degrees

and the pul e oo Exploratory operation re ealed free non feetid fluid in the peritoneal ca ity. The appendix had an inflamed bulbou tip and contained pus. Its base was indur tel. The all of the crecum which was dr wn f om a high position was ordenatous and indurated especially externally and showed a d pre si n abo e the induration. In intussuscen to of the excum and appendix into the ascending c lon vas reduced but was easly reproduced by sh ht pressu e on the bale of the excum The ileum cel entered the col n After appended had tomy the cacum was fixed po teriorly to the par tal wall by f ur linen stitches Recovery was a e entirel

It could not be determined whether the appendi citis vas primary or secondary In Houdard's ominion the cacum would have been fixed better by suturing it in the rous to a pos erior quadri lateral area denuded of parietal peritoneum

The authors conclude that an abdominal syn drome suggesting appendicity and associated with an urgent de ire for defection should suggest intusti ception. If such colics are accompanied by diarrhenc or bloody stools the diagnosis is more certain The ab ence of melana does not chiminate intussusception. The local signs are those of appen dicitis situated high with pain on pressure and in testinal contraction. Especially in the cases of fat patients it is not always possible to palpate a tumor Whenever there is doubt operation should

be performed In the discussion of this paper RILHE reported the case of a man 20 years of age with an abdominal syndrome characterized especially by distention Megacolon was suggested Mer nine days the dis tention increased vomiting occurred and blood appeared in the stools A diagnosis of intussu ception was then made

At emergency operation performed through a low midline incision under spinal anasthesia a dis colored intussusceptum 20 cm long was found This was resected a disinvagination was impossible hand to end anastomosis was done and the abdomen closed without drainage

Reco ery was simple and complete. The speci men sho ed invagination in three cylinders WALTER C BURKET M.D.

An Experimental and Clinical Ol ecron II Study of the Postoperative So Called Paralyti lleus 1 ta k g 5 td 9 7 ltt 48

The motor functions of the stomach and small intestine are influenced by trauma and peritonitis but neither trauma nor peritonitis causes pare is of the muscles of the intestinal vall

Tra ima con tantly produces a definite and rela tively prolonged cessation of the peri taltic action but as the rhythmic contractions persist this cannot be the re ult of direct damage to the mu ca ature for is it probable that a disturbance in the general circulat on plays a part or that the cessation of peristalsi is brought about by inhibitory reflexes by was of the spinal cord Direct injury 1e paresis of the motor elements initiating the peri talsis is probably not the cause as the effect of trauma on peristalsis is almost abolished after radical extirpa t on of the solar plexus and degeneration of the efferent post ganglion tracts. The explanation of the effect of trauma t therefo e probably to be found in ome inh bitory reflex b way of perse

tructs through the solar plexus in the form of an I erforation peritonitis also brings about cessation of peristalsis althou h less co stantly and fre quently to a less degree than trauma The mecha nism involved has not been definitely established

axon reflex or a true reflex

operation as nos ible he foun Hunctional disturbances in a large percentage of the cases even when no Chnical symptoms pointed thereto lie therefore consider a strict diet necessary during the first few days following operations on the stomach

Hanrara ((raz) stated that in the ta es referred to by Dzialo zynski the cause was probably vicious circle which frequently develops after the Billroth II t rocedure and favors the formation of postoperative peptic ulcer of the jejunum Very often ptosis of the duodenum is responsible. He believes that the diet should be carefully regulated for as long as three weeks after the operation. After four or tive months the emptying process will be impro ed as a terult of the development of a sort of sphincter The storis of the duodenum demands the Billroth I r rocedore

LINSTERFR (Vienna) stated that in his opinion the faulty emptying in the cases reported by Divisios zynski was due to the manner in a bich the coil was

KESCHEL (Chemaltz) maintained that when the

to I is applied according to his method a victous tircle cannot develor. He has ob erved no peptic first four weeks after the operation I runes (1 ostock) stated that there is a swelling

of the mucous membrane during the first right to fourteen days Later there is formed a sphincter

like closure demonstrable in the roentgenogram Schoen sern (Hage) reported that he favored the Billroth I procedure Koentgenoscopic examination often gives the impression that a sphincter has formed but this is due to compre sion of the intes tinal wall

In his rech. Driatoszynski emphi ized the fact that among the 100 cases there was no repliculer and that only three ca es required a secon jary operation STETTI ER (7)

Saint J II Polypi of the Intestine with Speci 1 Reference to the Ad nomata Ba J S t

1027 XV 00 Polypus of the intestine generally means any pedanculated or ses ile growth I rojecting into the lumen of the bowel the result of hypertrophy or hyperplasia of the mucous membrane or else a

benign true tumor Since the bowel wall is made up of various types of tissue tumors of different varieties may an e an ! project into the lumen of the bowel to form poly; thus we may have adenomata papillomata I bro mata bipomata my somata and hemangiomiti The perstonesi cost alone does not attempt tumor

formation Polyps may be single or multiple an I vary greatly in size They occur more frequently in the large Intestine than in the small the ratio be ng approx

imately 4 1 The most common site of polypi n the small bowel is the ileum I olyps formed by glan fully hyper

rlasia greatly outnumber the other meties

Hamangiomata and the globocellularis or car cinoi I tumor of the intestinal wall are very rare I inomata may occur anywhere in the intestinal trict they may be single or multiple essile or pedunculated an I often grow to a large size producing obstruction of the bowel Alenomata are not common in the small bowel but when present occur most often in the duodenum. In the small bo el multiple polypi are more common than single polyfi

In the large intestine the sigmoid is the most common site of pelyps and the adenoma is the type of polypus most fre tuently seen I olypi associated with ulcerative colitis are n t true tumors. They con ut of sterps of mucous membran which have become letached by the unlermining act on of ulceration Lipomata in the large bo el present the same gross and microscopic character ties as

lipomata in the small bo el

A lenomata of the colon vary considerable in size an I may be single or multiple. The cause leading to the formation of adenomata still r mains uncer tain According to one theory they are of a flamma tory origin while according to another they are the result of primary einthelial change Adenomatou polyni are canal le of undergoing mal gnant changes the e changes have been demonstrated to been at the periphery I the tumor. They have neve been observed by the author in any adenoma small t than a walnut

I olymin the mall and large intestines occur more frequently in males than in females

CYRIL J Gen ret, MD

Feres D Fruchaud I ninig e, Houdard Tall hef and Cadenat Acute Intesti 1 in agi nation in Adult (I amnati nt t le 8 i healaluit) Bill timim Sc t d k 97 1 1 328

Three cases of acute intestinal invarination in the adult are reported

Case I was that of a man 30 years of are ho gase a history of r current abdominal colic ith a desire to defecate farther, bowel movements and biliary comiting for four days. The ab lomes was somewhat distended and an area the st of the pulm in the mi lline below the umbil cus was slightly painful on palpation The right lower quadrant of the abd men was p tales. A diagno is of acute appendicities a as m to. The temperature was 37 degrees C and the pul e 43 On the morning of the fith d y violent abdominal pain occurred e ere half hour the ab lomen became painful on palpa tion and more di tended the pube increased to 100 and th temperature ro e to 37 3 degrees C

In emergen y operation through a low midline incision r exled free purplent fluid and I cal material in the periton al cavity and a perforated ifeo ifeal intussusception The gangrenou boxel was resected and the intestine anastomosed e d to-end Mer cleans ng of the perstoneal ca sty ith an ether sponge the abdominal wall was most competent surgeon if a pre operative diagnosis

has not been made or suggested (Wolfer)

It is agreed by all of the authors that before surgical procedures are undertaken medical methods should be employed. For the visceroptotic type of patient some mechanical support is indicated. In addition Holmes advocates prolonged rest in bed and over alimentation. He states however that the cure is not highly to be permanent.

Wolfer believes that su pension of the pto ed viscera is uniformly unsuccessful. The Kello es do not wholly endorse this procedure believing that gastropery is ju tifable only in properly selected cases Bell and J P and D Y Keth condemn gastro-enterostomy or pl stic surgery at the duo denoiciunal flexure when the ob truction is in the distal d odenum and regard duodenojejunostomy as the procedure of choice Wolfer concludes that the causalt e factor should be remo ed if po sible and that if the is not po sible duodenojejunostomy i the operati n of choice F L and W 1 Kellogg believe that duodenojejuno tomy is the mot frequently in licated operation in obstruction of the third por tion of the duodenum. They has e operated upon eights two ca e and in seventy seven perf rmed a duo len seiun stomy alone or in combination with other procedures. There are only to death Next in import nce they believe is an operation on the colon. They have made the interesting ob ervation that give surin and po sibly true diabetes i occa ionally associated with a nathological le ion of the duodenum. While the report, are not sufficiently numerous t estable har late ushin between the e conditi n they justify further study of the

Bolton C. nd S Imond R W. A. Antiperistals s of the Duodenum and Its Relati n to Pyloric Regargit ti n. Lon 1 97 c 1 3

OR RES II HE COCK MD

problem

Antiperistal is has not tel feen lemonstrated to our m malh in any port in of the Inneatan tra tim man alth ught it is a sume It occur in the ascen ling. In C. let he described the due fenal cap reparted the fit is part of the due de um asa part of the timed; with a part of the timed; with a part of the timed; with the poil rice planter and from high the criteria are also a teel by perist liss of the sonal pot timed due deminant when the criteria are also a teel by perist liss of the sonal pot timed to denim recording to the theory in a commanda acquiet at piece in the apic rat a to disharing also content into the sonal pottion in the due lenum high finitum parts each follow to the popularity tank in the principle of the property of the pro

h gu gatation f du fenal c natents into the sist mach or winn mall at a definite time I want the end f ga tri di estion when the curve of h frooth is raid; if the ga tri cont nate rea her t a c a ramal h ghi about o p per cent. It lep ni entirel on tel xati n of the palo ic phin ter

Ther e three t pes I phin ter a tin (r) the n sm I ith p I is relaxation at the peal of

the gastice acidity cure (2) spasm of the sphincter which occurs normally in the early stage of digestion but is prolonged resulting in by perchlorhy dria the most common of gastice disorders and (3) exces sive relaxation of the pylorus which occurs at the beginning of digestion and results in regurgation and neutralization the presence of bile in the gastice on the results in the gastice of the property of the property of the presence of bile in the gastice of the property of the presence of bile in the gastice of the property of the presence of bile in the gastice of the property of the presence of bile in the gastice of the property of the pro

In 100 persons in shom the authors investigated the movements of the duodenal contents and the activity of the polone, phincter they noted four distinct movements (1) contraction of the cap (the first part of the duodenum (noter than the cap) propelling the contents forward (3) contraction of the duodenum (other than the cap) propelling the contents forward (3) contraction of the duodenum (other than the cap) forcing the contents backward presumably antipenstalass and (4) segmentation or mixing movements

These movements were observed in normal per sons and also in persons with such conditiors as gastric ulcer gall stones new grot this of the stom ach gastro enterostomy with a patent pylorus appendicuts and pylorus tenosis

Antiperistalisis was observed in 93 per cent of the patients. It resulted from regurgatory movements toward the ploturs due presumably to duodenal contraction. The cap contracted and pas ed the food into the second and sometimes the third part of the duodenum.

The antiperistaltic wave forces the intestinal contents back for varying d tances. Often the food passes back to the cap which it may distend and is then held up by the pyloric sphincter A peristaltic vave then propels it onward again and another antiperi taltic wave returns it. The delay of the food in the duodenum assures its admixture with digestive juices. If in the meantime more food has left the stomach the two portions are mixed together The mixture may then be driven into the jejunum by the first peristaltic wave or by everal such waves. When it has once entered the jejunum it does not return to the duodenum. In every case the cap a periodically filled completely or partially by antiperistal is of the duodenum and the only barrier to regurgitation into the stom ach is the pyloric phincier. The movements de scribed continue until the stomach is empty

Regurgitation into the stomach does not occur with every antiperistalite wave. The priorite begins to relax independently of gastric peri tals as di gesti a procee's and regurgitation occur from time to time.

The pylone phincler regulates the output of the stomach and the regurgitation of duodenal contents

Cn res F Di Bors M D

Inde Hoof D Tre Medical Cure of Duodenat Ulcer J im M 4 19 lx 1 344

Vanderhoof states that frequent feeding is the most important part of the treatment of duodenal ulter. His patients are given once every hour from a m to g p m x oz each of cream and sweet mile

It seems probable however that as in the case of trauma it is a question of inhibitory phenomena The anatomical basis of these inhibitory phenomena is known only incompletely. Arai has shown that in reversible forms of peritonitis it is a question of inhibitory reflexes by vay of the spinal cord but this explanation is not sufficient in a progressive irreversible process such as perforation peritonitis The inhibition is not effected by division of the splanchme nerv s and even after radi al exter ation of the solar piexus and degeneration of efferent post ganglion tracts the inhibition may be well marked It must be assumed therefore that inhibition takes place by way of the intramural tracts or by such tracts as pa s in the immediate neighborhood of the intestinal wall

l'erforation pentonitis in the cats used in the author's experiments constantly produced con siderable although not complete mechanical obstruction in the form of fibringous adversions and

kinks

As there was no meteout in below the obstretum the ditention of the git must have been due to the obstruction itself and the effect; if any of the torust exadate must have been of a buotinasie importance as the git bow the obstruction was usually empty and co tracted. The obstruction were without exception numerous although one or more kinks were frequently innoceptional than the others were frequently innoceptional than the others.

Certa n observations suggest that spistic contractions in Bauhin's valve may act as a mechani al-

ob tru tion

It has been unpossible to determine the extent to which mechanical obstructions modify the effect of personatis on pecusatic action modify the effect of reasons for the assumption that mechanical obstructions stimulate per tixt is thereby o ercoming the personation of the observation of the personation of the pers

Ity A C A Brief Re tew of the Ply lology of the Du denum Rad of gy 947 47 A of the eathors in ea long list of lesions cap

An of the earthors of earling inst or reliable to help of cau ing diadenal obst uction. Ambig in transic causes are congenital abnormal ties duodent its ulcers and if roigh bode. The extraox causes includes a cropto personnel band and adhesion angulations construct in blue oof of the mesentery or it e superior mesenteric active; tho existing gail stones placereating and extraosic presence by tu

mors or ancursms. As Holmes states almost any Inflammatory or matignant condition in the upore abdomen may result in duodenal obstruction. In all of the articles attention is directed manil to obstruction resulting from enteroptosis perioseal bands or adhesions and pressure by the root of the mesentery or the superior mesenteric articles.

Be 1 P and D 1 Acuts and Holmstele to the hypothesis that the public sharp distel i vector on the hypothesis that the public sharp distel i vector on the meantless that the public sharp distel i vector on the meantless of the december of the common while an as conted duodent december of the common while an as conted duodent duodent by the public structure of The kellege point out that prolips of the execum or small intestine into the pelm and of the execum or small intestine into the pelm and catter of the execution of the duodenum by causing traction on the ileccole aftery and though the color of the vector of the duodenum by causing traction on the ileccole aftery woo the suprepor meantless after.

The symptoms vary depending upon whether the obstruction occurs above at or beyond the am pulls. Cases of obstruction beyond the ampula are the mot toomnon. Wolfer states that early is the disease the pylone sphinicer is hyperionic and spastic. Pair seculist. Lacer the pair is rebe ed by relaxation of the sphinicter or by vombing. The symptoms described by the authors a c those of a symptoms described by the authors a c those of a

Ivy reminds us that in obstructio touc sub-

chronic dyspensia

wans that apparent duodenal dislatu n may be produced in the spine pool ion as the duod num addies over the spine in such a way as to make a certain deg or ob truction at the duodenal dieu e nith writing duodenal mo eme t particular and a such as a such a such a such as a su

normal as well as abnormal condit s In (a.es opin on the c findi go should be present at repeate!

evaminations before a det mite diagnos of duodenal st sis is made

The dia, nor may be diffic it for the surgeon even after the abdomen s opened. Because of the racce sbit of the dode um and its rither firm posterio fi iton its size shape if the act are difficult to difference. It is therefore not surprise that the bit int on may be of slooked even by the

summer The mil winter rise may be related to the increased incidence of acute pulmonary infections in the winter and the mid summer rise to the in crease in acute intestinal infections in the summer

In the past twenty five years the mortality has been high it among persons between 15 and 19 years of age. The authors attribute this fact to the inl scretions of ad lescence and depletion of resistance due to raind srowth.

State of the state

MILIED L CRINER MD

Schueck F. Late Result of Surgically Treated Appendiceal Abscess (State esult to be m. pen. t. appe. 1 tsch.n. Misces) t. k. f. kl.n. (k. 9.7 xh. 15

The auth r has review of 353 surg cally treated cases of appendiceal abrees from the abundant cases of the production of the production of the price of the price

The let interval between the first and second pit in wa full to be two or three months Ween the int value I occe few patients returned the condition of the con

Ma tin 1 and B d n \ G The Surgical Significance f th Rect sigmoid Sphincter

Windle in state the same the ground by the index states and the same through through the sa

to that at the pylorus and a distinct narrowing at this point

In the absence of a demonstrable lesson per 1 tent tonus at the rectosignoid sphinter is the usual tonus at the rectosignoid sphinter is the usual and the adult this stass. In the adolescent subject and the adult this stass may result as in lirisch sprung s disea e in the infant in obstinate constipation and ultimate megacolo It may be manifested also by postoperative tympany unrelieved by tube or crema

The pulliative treatment of sigmould stass is based on measures designed to make or keep the bowel contents fluid strengthen penstal is and relax the tonus of the phintern muscle Lazatives and purgatives given by mouth and copous enemats keep or make the sigmould content soft or fluid and stimulate pen tal. Belladonia derratives elevatives of the state of the statute of the state of the state

Chrome sigmodal stasss with or without hyper trophy and dilatation of the gut may be cured by consecuting the rectosigmodal sphineter and allow ing the mucosa to prolapse into the muscle nound without effort at plastic closure. Or the sphineter may be overstretched by means of a I jummer bag it ha larger dismeter than that used in the ecophia may a tweet through a proctocope Insofar as the colon is concerned postoperative; I jumpan, may be retirved 1, pasting a colon tube into the sigmon! The colon of the process of the process of the protince fully have dust a tube made soft live bouling to the sense of touch and than X-ray proctures to prove that it can be done. Astrong I, Visteritza, VID

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Graham A J Subcutaneous Rupture of the

Injury of the liver by non-penetrating violence ie subparietal rupture is rare in civil practice Graham summarizes the chief clinical features of eleven cases

The liver is the mott frequently injured internal organ. Its partial faction its shape and its composition render it early injured. In children it is lar er and more frable than in a fult.

whock to of two lands (1) primary traumatic and (2) that due to continued bombardment of the ner out system. Sud fen acceleration of the pule to 420 feb due to a fall in the blood pressure; almost characters the of internal harmorphage. It the primary shock passes away the preserve of an additionated leaven is indicated by local symmothal without all the first and the properties of the primary shock passes are positive size of a fer fees on the primary shock passes are positive size of a fer fees on the size of the primary shockers are the primary shockers. The primary shockers are the primary shockers are the primary shockers are the primary shockers are the primary shockers.

d. uncil gra fual and provers a emitades elopment. The d sanoss of a liver lesion is often impossible until the lay after the acc tent. If it cannot be based upon abnormal dulatess dependence must be placed upon the d sappearance of liver dullness.

to which is added to a rol sodium citrate. In the serage case of chronic duodeals diere six feedum daily are sufficient. The best food for patients with diere is fat such a seream butter and only end. Bella donna to drops in water three times daily below meals help to relieve polyorosam and hyperpen stabis. The treatment must be carried out regularly measurements for a period of two years who daily necessary that the serial polyorosam and hyperpen stabis are the serial polyorosam and hyperpen stabis. The treatment must be carried out regularly out product the serial polyorosam and hyperpen stabis and the serial polyorosam and hyperpension of the serial polyorosam and the serial polyoro

The suthor a results from the medical treatment of uncomplicated duodenal ulicer have been most gratifying. Considerably more than half of the rations have oblanced immediate relief and have remained well and free from symptoms after the two pears prend. A creating preventage obtained to pear the treatment in the absence of symptoms. In such cases recurrence of the ulcer syndroms is almost cases. The proposary relief is again obtained to the proposary that is a syndrom to the proposary that is a syndrom to complication occurs and overative intervention to complication occurs and overative intervention to

Michaelsson E A Case of Ca ernoma Hel Simu lating Intussusception in a Child Aged 3 Months 1 ta chi & S ed 1927 lu 57

The author report a case of excentions of the learn in a child g months old who was taken sud deally all atth typical symptoms of intriuse ception (signs of obtain time bloody stool, and a palpable mass in the abdomen). The tumor had transformed the ilearn for a distance of about 10 cm into a sausage like structure the surface of which was spuride and spraiked with small modules and the wall of which was penetrated by typical cavernoma tissue. In the mesentry belonging to the involved gut there were hemangiomatious formations up to the cost . Rese tool and side to side anastionres's were followed for diffuse personate resulting from lasta e of the satures and death resurted on the following

The author is of the opinion that the symptoms of obstruction and the bloody stools were due to tor sto of the cavernoma causing swelling of the altered

gut and more or less obstruction of its lumen.

Despite the Lital issue in the case reported he belie es that the best freatment is resection. Unless it cavernoun as removed there is danger of infections thrombos and further growth of the fumor.

Bolling R W Megacol n A Si 2 0 1 xx

Under the terms congental distation of the tool Interchepting a disease and mega on one proposed a number of could too of the last of the tool of the tool of the last of the

the term true megacolon for the cases manifest ng aymptoms in infancy and early childhood and pseudo megacolon for those occurrin in later life

In its typical form the condution is characterized by obstitute constipation with abdomini dates to obtain constipation with abdomini dates to the constitution as often noted from brits Abdominal distention may be abdomined instantion may be abdomined instantion may be arrived as the conduction of the constitution of the conduction of the constitution of the const

The rectum may be nivel sed but a sensity anomal Medical measures include the wearing of a siporting abdominal belt a low residue det with restriction of starches the a ordance of lizatives with the except on of mineral oil and the dails was only may be remained by the control of the startest in the startest and the startest an

Medical and sa gival treatment each have the indications and himstate as The treatment must be based entirely upon the requir ments I the particular case SAUGEL KAPE MD

Williams E U Tle Normal Var bility of the Acti n of Fitultrin on th Contractile P r of the Cocum and Col n P c h S c H d Lond 927 x 273

In e p riments on forty nine med cal students Williams d mont ated the fallacy of the theory that a normal excum show marked movements a few minutes after the subcutaneous injection of 1 ccm of pituitina and that the atomic excum: un affected

Of the forty mee subjects only eight showed any or azble movement of the excum after to mn is said in the rest the cacum was unaffected. Therefore as so many it mad excums remain unaffected by the drug the use of pituitini of prit (cally no value in the di gnosis of tonic exium the distribution of th

Car E I and Dea on W J V Appe dict sa Study of Michigan s St ti ties J Mi h & Stat M S c 9 7 x 1 358

Stat M S c 9 7 x 1 358

The authors review 31 032 deaths I om appen d cit s in the State of M lugan

The nection may reach the appendix from the lumen of the neets me the blood stre m or adjace true true to Roughage in the det so ten two dappe declis. The greatest number if ath from the condition ocur m m d my ter ul mid

4 Division of the vagi does not eliminate the cardiac arthythmia J Frank Dolours M D

Halpert B Morphological Studies on the Gall Bladder I A vote on the Development and the Microscopic Structure of the Normal Human Gall Bladder B !! J k s Hopki Hett I it 1027 M 399

Halpert traces the embryonic development of the gall bla i ler bile ducts and liver from the duodenum and di cu ses the differentiation of the structures

that make up the wall of the gall bladder. The enthelial liming of the gall bladder and the ble lucts and the prenchyma of the liver are of ento-ternal orizin, while the termainder of the layers of the gall blad ler and the ble ducts and the

interstitum of the liver are of mesodermal origin. The article includes photomutographs of gall bladders in embryos showing the differentiation of the mesoderm into the sub-epithelial muscular and I permisular zones and the differences between

the fire an I attached sides of the gall bladder. It is pointed out that the gall bladder has no true submucosa that the musculature is late in level pinng and that some of the gallads in the neck of the gall bladder penetrate the muscularis as

Bruner's glan is perforate the muscularis mucosx if the luo lenum The author suggests that the muscular coat of the gail bladder is analogous to the ruscularis m_i or x of the duodenum. This would explain why direct mechanical chemical or electrical is much by en o demonstrable effect on the

xill bladder as they do on the duodenum. The macro cope cappear nee of the hung membrane of the hung mall bladder shows the formation of the valles of Heister Microscopically the hung membrane does not exhibit any specific rains to secretion public tells or glands except in the neek of the gall bladder where they are oc

casi nally seen

The author expl ns the formation of the Rixitansk s. h fi snusses and their differentiation from glands. S sets are very rarely seen in the n rmal gall bit does and are believed to be caused by repeated ver distentions and contract in sof an unil aith gall bilatter probably associated at times with some obstructs in an the common duct

The muscularis consists mire see really of longituding oblique and circular laye none of which is a licently derive to form a distinct layer. The roward is trips to firm the surface relief of the

It is printed out that the normal human gall bladlers recerooced, tended and never extremely out a ted fut always in a state of moderate duted in and practic live ever empty. As a rule the fillfall of hos not empty itself by mescular contract in The amount of 11 that lea es the existic distinct exist fur hours are in such as the fill and that the state of the hours in small such as the fill and that exist fur hours are in small such as the fill and that exist fur hours are in small such as the fill and that exist fur hours are in small such as the fill and t

The primuse lar lever is a layer of connective to e are not the muscularis and cortains the encast lar bus alle formed by the cystic artery

cystic veins lymphatics and faith large nerves. The fourth layer of the gall bladder is the serosa formed by the perticoneum. The wall of the gall bladder may be said to be composed of three layers (1) the mucosa (2) the

muscularis and (3) the perimuscularis
Wilken L. Graham M.D.

WILIFRID L. GRAHAM VI D

Gould E P and Whitby L E H A Case of Bacillus Welchli Cholecysticis B I J S g

The authors report the case of a voman 43 vests of age upon whom they performed a holes tectoms. The superstead fluid which had a raneid odor was ammed bacterologically. Smears sho ed gram positive bacillar exembling the bacillus welchul positive bacillure symbolic da profuse growth of organisms similar to those found in the smears Guinean gui noutations caused intene gas grava, rene and death within twenty four hours. When it stones found in the gall bladd r v are crubed and in ubarted the bacillus welchin was obtained from all and the streptococcus facial from two Examination of the gall bladder showed the bacillus welchin large numbers in the ulcerate! I mucous membrans.

Ti e patient superentful recovery is attributed to the complete removal of the focus of infection by the

removal of the gall bladder

In one of two other cases cite I the patients condution was so grave that exploration of the gall blad let was impossible. It autops, the bacillus welchis was recovered from the omentum gall blad der liver an ispleen. In the other case the breteras were confined to the gall bladder and the condit on terminated in recovery. Rayno p Geres M.D.

Fowweather F S and Collinson G A Certain Chemical Changes Associated with Gall Stones with Special Reference to the Relation Between G II Stones and Hypercolesterolæmla B u J S L 1917 21 583

The authors investigated the cholesterol and cal cium contents of the blood b le and gall i la ider. The determinations were made in ca es which had come to operation.

The blood ch lesterol was increased in 46 per cent of the cases and the thood calcium in 32 8 per cent. The bile cholesterol was increased in 44 per cent but decreased in 6 per cent the mean value being higher than the mean normal tut decreased.

with an increase in the blood cholesterol. The bile calcium was increased in 6 per cent of the cases and decrea el in 1 8 per cent. Here the mean value was below the normal mean value by tits variation with increase I blood, cholesterol by tits variation with increase I blood, cholesterol

b t its variation with increase t blood cholest was not always in the same direction.

The cholesteral content of the

The cholesterol content of the gall blad ler was

increased in 43 5 per cent of the cases and decreased in 21 per cert. The gall but her calcum was in crease lin 44 opercert an increased in 3 per cert. Whatever the value of the boost cholesterol the

great majority of the ca es showed marked changes



rical clinic of the Municit al Hospital of Lasen Kuhr Like Schle el he differentiates between acute pan creatic necrosis and the pancreatoses which are parcreatic injuries without parenchymatous changes in the cland

In the discus ion of the symptoms particular at t at a is called to the colicks pains and their fre ment I cation in the epigastrium also to the lact that frequently a deep pain in the back is felt on palpati n of the epigastnum It is emphasize I re peate lly that often in spite of the most evere toxic general's mr toms the changes in the pancreas are il sht and vice versa. Therefore no conclusion reear in the changes in the panereas can be drawn fr m the symptoms or the seventy of the attack The author emphs. zes also that it is well to be m re con ervative in attacking the glan l it elf and its surroun lines as a cure may often be obtained is imil laparotoms or extirpation of the gall that for

The pancreas itself should be attacked only for fuce of necrous which lead to complete ic truction The parenchyma Openin of a necrotic focus must be d'ne with extreme care and athout cauling tam tthage. The surroun lings of the functeas shull be macked of and drined if an exudate is found in the omental bursa. When only slight changes are 4 co ere! nothing hould be done to the glar I steelf ar I only the disease I biliary pas ages should be treated. The operation should be perf try Lead

Them stimportant ti lo al factors are 1 ca es f th g il blid fer and the treatment of these is often sut cient t frodu e a cute

Wild CR M Allan F & Lower M II and Robertson II b Carcinoma of the 1 1 nd of the l'uncreas Hyperin ulini m and Hyperly comia / te t/ t to

The uthors report a cale in which there was a tant tend nes t ward - re postane us hype chestria this a att but it egre fuer not a white matum r it to pa re monati in th ila I of Lan ch

The 1 tient was all it nigo are fage h bluerelt mire, ntattak fee eji g in jamfen n I ghtren et nthe bel re 11 amnat nh begant ha e ti k fwe h mit it poular on the which utted it hi m al re !! I r ! b undertock al tin II to go lith imlants tithe mimit the frim Infattrant vr tib i ib uliberes edit this fied et a t It is a grad all i re sed in fre fue ent anitt I bet me e et an th patient till an rint mit till at the faces it illiss it on t ile re u tated o * 15 " I night that tie percent me are e th

- 1 - t les

11 1 trme 1 x 1

than o o to gm for each 100 c cm Eninephrin and pituitary extract had no influence in preventing the fall. At the first examination the amount of sugar remused to maintain the normal blood sugar level was found to be from 20 to 25 gm evers hour The requirement rapidly increased until two months later it was necessary to give sugar every half hour and the total amount incested in twenty hours exceeded 1 oos cm Death finally occurred from exhaustion

In exploratory operation performed one month before death revealed a large tumor in the tail of the nancreas and several metastatic nodules in the liver These Indines were confirmed at autors, Micro sconically the tumor showed a distinct resemblance to 1 let ti. ue and the similarity seemed sufficient to justify the conclusion that the tumor was a car emoma originating primarily in the islands of Langer hans The proof that it was responsible for the excessive production of insulin was furni hed by testing an extract of one of the masses in the liver for insulin activity. The extract was decidedly active in lowering the blood sugar of rabbits while a control extract of hepatic to sue was mactore

The condition encountered in this case has not been previously described. It may therefore he regarded as a new di case. The demonstration of the f roduction of an internal secretion by a malignant tumor is also of unusual interest

Bergmann von Interpistic Conference on Surders of the I nereas (Intern to hes korrel rat sur (h rurg e des I nkreas) 52 Tag d d ul ch Ges f Che Berlin ga

Von Bergmann reviewed the experiments on animals performed by Guleke He called attention to the fact that there are few instances in expenmental medicine in which it is possible as in pan creatic di case to reproduce in animals the conditions seen in man. The se ents of the resulting disease ricture depen is upon whether the animal is at the height of d ge tion or ishungr When the animalis in a stage of hunger the resulting disea e picture is mild The essential factor which gives rise to the lisea e is the ferment. The powder lies in the glan ! ready to explicte and can be made to explode by numerous influences

Bacter a are included among the etiological fac tor but are n te wantal for the prod the n of the deexec In the foregro n1 is autodige tion Bi preliminary treatment with trypun preparations on Bermarn has been able to produce a certain immunit or rather a certain re stance to toxing The pot cion of a passive immu its ho ever he pever been real red Von Bergmann believes that it may be post be to render the course of the con to a mi i raison el calcases by the a from istrati a of trype e preparati s Altho gh even them at se re cases man d el panth tant fre to story symptom there are those in which the serve attacks are preced d ? miller or s which ate en ' cult to diger ce

in the composition of the gall bladder or the bile or

So particular type of stone was found a sociate i with any special type of chemical change in the

oth r substances examined

It is generally assumed that the cause of gall stones is a con titutional ten leney to said hypercholes ter damia but if this were true diabeties who e diet re ults in a hypercholesterol emia i oul I develot gall stones frequently Moreover if hyperch lesterol a mia causes stones the blood cholesterol should not be aftered by choles stectoms intereas after this unitation the blood cholesterol shous a definite tee rdingly we must look to the rall lectra. bla lder it elf f r the cause of gall st ne formation

The authors a sume that in disease there is some le tee of obstruction to the outflow of gall bir iler bile in the intestine that whil the last w of blute bil from the liver is maintained there is in the continu us proce s of concentrate n a normal rate of a litton of cholesterel (and other substances) which results in the production of a bile of greater c centratum than normal It the same time the gall blatter which normally absorbs cholester Li in contact with a flut I rich r in this substance than usual so that the amount f cl lester I massing through it and into the circulation is all o increased The they believe excluse the ten lenes toward increa e Leancentration f chalesterol in the blood the gall I lad ler an I the tile I continuance of the Ir cess of concentrate n I the life would ultimately result in the producti n of a bile which would be saturate I with respect to chilesterol an lans further concentration bey in I this point would result in the d r sition of soli I cholesterol from the overcharged solut on the form to n of stones

If hen there is an of struction to the outflow of ful unto the intestine an increased concentration of the bile with a ten len'y tox and hi percholesterol amia and hypercalcarma results If a patient suffering from cholecy titis come f r examinati n luting the acti e stage of the d ea ve ought to I c opent to calcemit but as a disturbance of the blood calcium seems more diff ult to produce than a it turbance of the blood cholester I the former wil not be f un I as frequently a the latter. In ad his n we should find a f le s eth a high choleste of concertr tion and a normal or decrea ed c leium e ne ntea tion and a fall liadler c ntuning an increased amount of both sub tances. This is b rice out by the In lungs reported R 1M 1 (REE MD

Gund rm in: Symptoms Foll wing Cholecystee tomy and the Re ults of Their Treatment (U B s h e i an h Ch i cy i ktom und i tgel n h er Rehn B ng) i Tag å d in h Ges f Ch Berl 19 7

The author reports up in thirty one cases in a high cholecystectoms was followed by a recurrence of Of these even were cured The cases represented all t pes of chol cystitis and it appeared that the severity of the previous disease proc ess was not responsible for the recurren e of the symptoms In many of the cases spasm of the sphincter of Oddi may have been the cause but such

spasms may occur al o when the papulla is unde

It was surpris ng that although the colon bacillus and I wrats phot I cases are cons dered to be the most severe one fourth of the cases of staphylococcus infection were not cure! This fact may be er plained by the discovery of staphylococci in the interaction have to sue Perhaps all o the mode of Infection may offer an explanation as a colon bacilles infection is a more local process whereas a stanhi lococcus infecti n is a more general proces theory in fuced Gundermann to carry out some experiments with vaccines

(It sixty four patients who were vaccinated only nine developed recurrences, whereas of those who

were unsaccinated sixteen developed a recurrence Protein therapy was valueless

In conclusion the author mentions the spasmolytic effect of bile admins tered by mouth an effect which was evident in two cases of fitula of the common duct. This treatment should be tried in recurrences following cholecystectomy in order to relie e a y existing spastic c ndition of the sphincter of Odds but in the staphyloc seems infect one a specific varcine theraps should be given first of all

STATE & (Z) Culten T S and Friedenwald J Acute a d

Cl onle Panereatitis Clinical Observation 1 ch 5 g 19 7 V 1 The auth ra tera st four cases of acute paner atuas and fiteen of chroric pan re tits. The acute harmo ri agir s ppurative and g agrenous types

ar becus ed from the clin cal standpo nt The 1 agas s of acute pancreatitis is frequently not made before operation. The acute epiga tric pain with signs I shock may sugge t rupture of 2 pept culter acute h l st tis or appendictis hitle agrement as to the time it hould be under taken Lach ase mus be o sider if ndividually The frequently a sociat 1 1 ease of the gad tract

my t also be remedied at peration In chronic pan realit the hit is of chrome dy nep ia epigistri pain or di comfort nu a emaciat on an i si ght jaun h may sugge t can er of the pan reas Great a istance in the disgnois may be readered ty n xamunation of the duo le al contents for p teat ferments These may be marke its d mini hed n the ra ti to

In the prophyl vi of [n at t the early treatment of die e f the gall tr ct is ivisable ITE D tony ID

Ries P Espe les s with Acut Necr sis of the Encret (C f hru g to ak t P ak kros A h f hl Ch 9 7 tl 35

Riess discusses a te p nereat n cosis n the basis of thenty case recently obseved a the sur

times the duct of Wirsung and sometime the duct of Santorini is the major passage. In some cases the two ducts run parallel whereas in others they empty into each other. In some cases they empty to other at the normal site but in others there is a minor papilla and the choledochus and pancreatic ducts empty at different points

HEUSS (Berlin) di cussed the diagnostic value of the Wohl emuth test on the basis of observations made on U1 er's service at the Rudolph \irchov host ital In thirty three cases a pathological increase was found three times. In t enty two cases of pancreatitis normal values were found only t ace The test 1 of value also because of its simplicity and

rapidity

BRUETT (Hamburg) also empha ized the minor rôle played by bacterial infection in pancreatitis Iven the most severe cases are sterile Bruett has folio ed up a number of cases after treatment Functional tests were normal so far as fat was con cerned Moreo er e en the admini tration of large quantities of plucase did not lead to the chimpation of su ar in the urine Occasionally however high blood sugar values we'e found. The dang r of chrome disease, fier a successful operation is li ht

SEELIGER (Freiburg) di cus ed the bactericidal action of pancreatic juice Careful studies have sho a that the success enterious has a bacteriostatic action only aft r the remo al of its broad by the fat splitting action of the pancreatic secret on

Mo recounce (Lienna) referring to you Berg mann's tatements re arding the de elopment of pancreat us after cholecystect my emphasized the importa ce of the anastomo i beti een the common duct and the duodenum which on Bergmann recommended It ma e en be important to separate the to ducts fom each ther There was only one death in the ni eteen cases in high Seeliger made such an anast mo : When this type f operation is performed d aina e of the hepatic duct is not ne

ce sarv

Hohlbalk (Leipzig) emphasized the danger of injury to the common d ct r the pancreat c duct in resection of the fuodenum I ollo v ag such injury a pancr at c fi tula d elop To close a fistula of this kin I Hohlt aum dra s up a loop of jejunum and implants the t tula int it in the manner of a Braun anastomosi H h clo ed two such tistulæ in thi vay In a simil r manner he clos d a fistula follos in an o rati n for pa ic eat c cyst The jejunal loop us d'io the purpo e va di id dand an ntero anast ms thad ne The patient has no been cured for st m ths

FINSTERER (Venna) allo stat dith tin ases of gastric ulc 1 y d n the pancreas the base of the ulcer hould b left but in all cases d ainage mu t be

table h ! In his o 3 resect ons fo ulcer a gastric or duodenal ulcer pe et ating into the pancreas was I und 14 times. In a ne of these cases did peri t mus dev lop Finste er has seen only one case of acute panc eatitis at resection of a small ulcer penet att a into the pane eas the b se f the ulce

as removed the surface of the nancreas covered with omentum and the abdomen closed without drainage Involvement of the pancreas by a gastric carrinoma makes resection more diff cult and renders the immediate postoperative results less satisfactors but this condition can no longer be regarded as a contra indication to an attempt at radical operation as patients who are not operated vill die v hereas of those treated surgically nearly 25 per cent survive and are vell more than five vears after the operation To improve the operative results I insterer advi ed the most sparing operation possible with the avoid ance of general anasthesia and vith careful packing off of the general abdominal cavity from the site of operation an I careful external drainage of the pan creatic secretion. He believes it well al o to omit the usual re-ection of the omentum. Of an patients subjected to resection for carcinoma seventy-one showed involvement of the pancreas. Of these twenty three (34 4 per cent) died after the operation Of forty ho we e di charged as cured fourteen (15 per cent) remained free from recurrence for more than three years and to elve (33 per cent) for more than five ears

ORTH (Homburg Saar) empha szedthedifficults in the diagno is Occasionally a sensation of pr ssure in the mid abdomen 1 the principal symptom Roenteen examination is decisive chiefly in cases of pancreatic stone. In a case of stone on rated upon by Orth a number of years ago death occurred six

seeks after the operation f om the erosion of a sem ARNSBERGER (Karl ruhe) also stated that there are m ld affections of the pancreas which disappear spontaneously but are indicated by a diabetes developing late. He emphasized the importance of reco nizing these condition

LOLKMANN (Halle) sail that in order to prevent f stula formation the suture should penetrate only the cap ul

Westpilat (Berlin) stated that in disturbances of motil ty of the bihary passages and the pancreatic duct particularly in the common b hary condit ons ith dilatat n of the common duct and in sympa theticotropic irritative states of the biliary tract it possible for pancreatic ferments especially trypsin to find their way into the biliary ducts and the liver Extensive experiments made on dogs rabbits and cats showed that the injection of pancreatic secre tion into the extrahepatic bile passages caused exten si e and se ere injuries to the liver gall bladder and comm n duct bich closely resembled the patho lomeal changes seen in human gall bladders. In addition to bacter al infection these autofermentive injuries of the h er and pancreas occurring most frequently through the larger ducts an I those occur ring in the ducts themselves seem to play an importantr le in disease of these o gans Therefore in gall bladder disease with ma ked dilatation of the com mon duct a choledochoduodenostomy cems to be definitely indicated to provide quick drainage of the ferments bich are so langerous when the pas ages are co ne ted

In cholchibus is sudden utradiation of the pain toward the left and a sense of construction extending from the left shoulder to the sigmoid and sometimes can into the left leg are symptoms suggestio pancreatic di case. Involvement of the pancreas can be established also by the exact determination of Head a zones. The eare quite different phenom ear from those occurring in stormy acute pan creatitis demanding immediate surgical intervention. Not every pain in the 1 ft equasition is a pan exception of the particular to the particular of the pancreas are presentage of them are traceable to the pancreas.

Amon, the aids to diagnosi is the diasts e reaction in the unner While a high dia late continue to the unner While a high dia late continue to the unner sound also in other very febrile conditions and its absence do so not exclude the presence of pancreatius the test is nevertheless of some value. The finding of diastases in the blood as also not concluive. Of greater value is examination with the diodental tube life not reposite soloud after irrination of the diodecatum with either the test is not confluive. But if tryp in its found the test is neconcluive of greater importance is the occurre ce of a typical collision of the diodecatum with the substitution of the collision of the diodecatum with either the test is neconcluse of greater importance is the occurre ce of a typical collision of the diodecatum with the substitution of the

What is the nantomical basis of these mild eases. Takhological anatom, piece little information as at Pathological anatom, piece little information as the sequela. Often do not become appre ent for years. The blood supar content 1, do not characterists. In the acute attacks there may be a hypod, zeroit of popters into hypodynamical book. At times there is a hyportrophy of the insular it sue but the carbon of the order of the property of the insular it sue but the carbon of the order of the property of the insular it sue but the carbon of the order of the property of the insular it sue but the carbon of the order of the property of

Mitention is called to the relation between copy lengs and panceratic disease I ancreatic diseases was octived most frequently hone or with gall biddlet condition as such as hollegistins and chole lithinsa. Frequently the co-flict in issue one ofstone that a neuropathic complex. Bide and trypsia are chu ned back and forth and cannot find the right in the disease of the such as the such a

In onether is you bergmann, epecied that he does it coppose early operation of a cutie white both below e it of the greatest importance to recognize the major tracks as pancerated erecognized the cases of lent pane, title and by treatment with trip in and as perid it loward oil essere attack asso at do the needs in discounter these

In the d cus ion of you Bergman's paper WALZEL (Lienny) r ported that in six of th I utte a cases of 1 ancreatic neero is in which he operated be was not satisfe I with merely plitting the careal but went dieper do n into the glan lin order t re mo e the necrot c tis ue In five cases be was able to do this vithout causing hymorrhage but in one case death resulted from severe hymorrhage with symptoms of air e nb h m and autops; res ald runture of the splen c vein The wall of the vein was permeated by necrotic fat and hal been thinne lout to one fifth its normal thickness Elastic fibers were present in very small numbers or enti ely absent The smooth musel allo showed signs of decement tion This case demon trated that the greatest care is necessary when deep incisions are made to the re ult of the s elling of the gland the sea els mar become displaced and a great deal of dama e may be done if the surgeon gets and from the mid se

GULERE (Jena) remarked that in further extenmental work it will be very important to di er trate acute pancreatitis i hich is an autor gesti e condition from purulent pancreatitis L perimental and ci meal evidence has shown that an the firmer bacteria are found only rarely and ferments ; lay the most important role. First amon, the causes of pancreaturs are gall stones but a stone in the c > mon duct or namila of Vater is ra r in experiments on dogs in a hich Gule e studie i the pre ure rela tions in the common an I pancreatic ducts he f ur? that during tarnati in the pressure is higher in the common duct s hereas during d gest on it is higher an o eriow is urusual There are also ther mod s of development of import nce f om the standpoint of n ophylaxis. The d terminati n of dia tase in the blood a a diarno tie aid Nothi g of progressi value is to be obta ned from quant tate e deterra a With regard to t entment Cul Le calie attention to the fact that de pite early operate no the p ribe of poor re ults has not been appreciably decreas d The condition al ays suggests a severe int rotation and some tem is mut be ought t combat the latte

HABERER ((ratz) stated that he had se n o b nine case f p n rest stone and some of it m t He cited heerie ! were tob h t dam n th case of thro adenoma ni repo tel that he h imil r ase Characteri tic s #P operated up n t ms pointing t pane to hier eweren to esert The ma sin the ft h i ch ndrum which as the ize of a chill h I n s m taken for a retroper ton al tumor Th n pla m as removed tart perstoneally bit e at the time of oper tion it was a tree nizels a pa er ne tomor The abdom n was the eff that up tightly which if berer would the eledi dout hadhe n th I I well e er the no

Sibit if kiurt a Mish ed toe tren gram f pecime s ni t i th it tod or a trate the a at n t th pa cet duts some

The author then enumerates briefly some of the less common causes such as the entrance of ascarides into the duct meat and sausage poisoning and metastatic pancreatitis which occurs especially fre quently after proctitis and also after operations per formed at a distance from the pancreas as the result of retro rade transportation

The dia nosis may be very difficult The ability to palpate the pancreas does not necessarily mean that the organ is diseased. The pain of pancreatic disease is transmitted by the solar ganghon back of the pancreas Characteristic of pancreatic disease is the sudden occurrence of abdominal dis turbance with severe vonuting but without abdom

inal riedits In , to cases a positive diagnosis was made in 320 and a tentative diagnosis in 04 In 346 cases the condit on I as believed to be an affection of the biliary tract in t60 peritonitis in 157 perforated ulcer and in thirty four appendicitis Erroneous d a no es were made even when the abdomen was

open The increase in the number of cases of pancreatic disease diagnosed has been due not to an increase in the incidence of the condition but to an increase in the facil ty with which the diagno is is made. The ratio of women to men affected is 6, 35 Of the patients whose cases are reviewed 794 were fat and

we e thin The condition is most common in persons who are heavy eaters and drinkers

Of 1 27 patients ho were operated upon 624 (48 per cent) were cured. Those who were not operated upon and recovered had serious after effects such as diabetes and chronic peritoritis. In only a few of the ases were there nancreatic stones of any considerable size which could be re mo ed

The author then briefly con iders the problem of d abetes. There is still no operative treatment for this ondition. The administration of insulin is not a

true substitution therapy

In conclusion Schmieden discusses the indications and type of operation for pancreatic disease Early operation is the procedure of choice (Guleke) is a pro nosis is impossible there should be no hesitancy when a definite diagnosis is made. Tiding the patient o er to a free interval is impossible. Only in the presence of extreme collapse and in late cases is it just fable if the pule is good to await the formation of an abscess or a cyst As a rule it is

r ng to an until the complete chinical picture has de eloped. The purpose of operation should be t e acuate the exudate by wide opening of the abdomnal cavity splitting of the capsule and dra nage. The usual approach is by the antenor route with raising of the stomach and colon. The lumb r route is used only exceptionally but for better drainage a counter incision is often advisable Frequently it is not sufficient to split the capsale of the gland the parenchyma also must be incised Care mu t be taken n t to mjur the pancrestic ducts

In the diagnosis of pancreatic stone the \ ray is often an indispensable aid. Of twenty cases of pan creatic stone eleven were cured Of 1 8 patients with cysts 112 were cured and fifteen died True and false cysts must be differentiated Of sixty two cases of wounds of the pancreas thirty were cured Improvement in the results will be possible only from early diagnosis and operation

STETTI ER (Z)

Bailev H Traumatic Rupture of the Normal Spleen B il J S g 10 7 4
Susman M P Spontaneous Rupture of the
Spleen B il J S g 9 7 47

BALLEY states that cases of rupture of the spicen may be divided into four groups (1) those which are rapidly fatal the patient never rallying from the initial shock (2) those in which the patient recovers from the initial shock and shows sign of splenic rupture later (1) those with delayed in and symptoms and (a) those with spontaneou

recovery Uncomplicated rupture of the spleen 1 seldom a cause of sudden death. More than three fourths of the cases fall into the second group. The clinical signs of internal hymorrhage are inconstant and at times very difficult to differentiate from those of shock Restlessness air hunger and a rising pul e rate are not al ays present Abdominal rigidity and localized tenderness over the splenic area are more constant Shifting duliness in the flanks is probably always present Inquiry should al ays be made regarding the presence of referred pain in the left shoulder

In the cases in hich serious ha morrhage loes occur until after a perio I of several days the pedicle must be handled with particular care on account of its friability

Spontaneous recove y from rupture of the spleen is possible but fails to occur so frequently that the necessity for surgical aid must always be assumed The left paramedian incision i used most generally for splenectomy but a supra umbilical median incision is usually adequate and permits more rapid opening and closing of the abdomen If more room is needed the latter incis on can be enlarged trans versely to the left Splenectomy is pr ferable to suture and tamponade An ideal procedure is the transfusion of matched blood as soon as the pedicle is ligated. If this cannot be done the subcutaneous administration of salin solution is indic ted

The early complications which may occur while the patient is still in the hospital are (1) perstoreal effusion due probably to the leakage of pancreatic ferments from the wounded tail of the puncreas) bursting open of the wound requiring re uture (3) pleural efusion on the left side (4) persistent hiccough due to irritation of branche of the left phrenic nerve (5) splenic asthenia (6) general peri toniti and () intestinal obstruction

The late complications are attacks of cardiac palpitation when the patient lies on his left side and Vor RIDWITZ (Vunnch) has used the Wohlge muth test in numerous cases An increase of the disastase in the urine and blo id indicates ob truction of the panceratire du t or hypoliucition. A negative reaction alone means nothing To value of the test selection, and the pancer of the test of the pancer of the disaster of the disaster of the disaster of the disaster of the pancer of the panc

LOTHEISSEN (Vienna) stated that he has seen fifty three cases. Thirty one of the nationts were women. Four refuse I operation Of these one died and the three others got vell. In two case in which operation for some other condition was done later the correctness of the diagnosis was proved by the fat necrosis which was still present. In thirty two cases of rall bladder disea e thich tere operated upon in olvement of the pancreas was suggested through out the entire chincal course of the condition. The clinical picture included left a ded pain (especially a characteri tic p ecoracoidal pain) The diagnosis was made before operation in the o thirds of the ca e As a rule Lotherssen split the capsule and drained the ecretion by se eral drains extending the entire length of the cland By these measures he has re duced the mort I ty from 50 to 18 per cent

Six um (Berlin) reported expenients made by him and Bernhardt in behi water solible medica ments—in a depailin cardine and national design and in account of the control of the substance in the case of ordin reinjections. Start is 2(2) was been been deposed in a few houses of the control of

Schmeden Sugry of the Increas (Chirurge de Iankre) 5 Tg d dits h Ger f ()
Belon 97

Merabuchh to teal rene of pancreated e se in which he refers particularly to the work of Gus enhauer and the monograph of hoerte Schmie den describes biedly the tathologico anat inicial pictate. This of three types () necros (2) herro th ge and (2) inflammation. The first type

is the most common.

One of the causes re ponsible for the high mortal
tily of pance attee dis age is the diegetion of the
tily of pance attee dis age is the diegetion of the
vessel in the omeration while led is to harmoring to
tested in the abdorman far the street is always and
the abdorman far testros is develoy and appead
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to be abdorman far testros is develoy and appead
to the promise in the physicism of by direct control to
the course in the abdormand cavity about it item hours
after the beginning of the condition. Fat necessities
the condition of the recognition of the recognition of the recognition of the condition.

may form in the extremities as the per standard transportation by the blood stress brocourse of the condition is so acute that per and sense do not develop

In the restment a knowledge the plan important. The author mutuses he repossible modes of origin (i) by the godd, as those discounted with the possible modes of origin (i) by the godd, as the duct of Wirsung or the dit is var in by the entrance of blue or bit ray to though the common dest (i) the substitution of the product of the common dest (i) through the common dest (ii) through the common destination of the common destination of the common destination desiration destination d

Characteristic of the condition is 13 mg/
velopment which can be comp red to the cut. 1

of a powder magazine

In 68 By the creat of sizes as a service that the reference of the control of the rest of

The pancreas is a seasine o an efter M great care in operations performed acci. I field introduction of a sound into the crimic of may have serious con equences such as may occur in extripation of the sylver resection of the duodenam and other operacy are dangerous. The abdomen and the properties of the sylver in the sylvery of the sy

f om the pancreas are to be avoided. The author has seen 45 cases of pa create disease following operations on the 5 mg/h. The chief cau e of the complication was the existence of a complete the compl

ule y penetrating the pa cress
Of the greatest importance in the training is
act knowl dge of the course of a panetic
act knowl dge of the course of a panetic
ducts. The nulls retest the charmont has describe and
the state of the course of the course of the
training of a adua (res). duct. The embred gas
de olopment must also be that is reto account in
important source of danger is the very count
into the state of the course of the c

the abdomen without causing damage to the pen toneum other than that of the organs to be re moved

Drainage of a eptic focus in the peritoneum is es ential when it is known that the suppuration null continue and when general peritouities is apt to occur if the abdomen; closed without drainage. On the other hand it may be possible to remove the eptic focus without damagun, the re t of the peritoneal

Primose emphasizes the importance of sound judgment in determining the indications for drain a e. He condemns the theory that the introduction of a drainage tube into the peritoneal cavity is all ays a safe procedure and that it should be done

whenever there is any doubt

A ca e is reported which demonstrates the value of the intra enous administration of phenol as a means of increa ing rest tance to infection part is light unfection due to the streptococcus harmon's true Envience; cited which ug ests that penol thus employed increases the phagnocy to actually of the blood a 1 probably that f the is use.

Da et JB Secondary Operations on the Abdo

The majority of secondars operations are done for the sequelx of a predictive cholangulus cholesyltist. As devolution of the cholangulus cholesyltist. As devolution of the cholangulus cholesyltist, and the cholesyltist of the cholesyltist. As the cholesyltist of the cholesyltist, and the cholesyltist. As the cholesyltist, and that cholesyltist. As the cholesyltist of the cholesyltist, and the cholesyltist. As the cholesyltist, and the cholesyltist. As the cholesyltist, and the cholesyltist, and the cholesyltist. As the cholesyltist, and the cholesyltist of the cholesyltist, and the cholesyltist of the cholesyltist. As the cholesyltist, and the cholesyltist of the cholesyltist. As the cholesyltist, and the cholesyltist of the cholesyltist. As the cholesyltist, and the cholesyltist of the cholesyltist. As the cholesyltist of the cholesyltist of the cholesyltist. As the cholesyltist of the cholesyltist of the cholesyltist. As the cholesyltist of the cholesyltist of the cholesyltist. As the cholesyltist of the chol

Later secondary interventions are most f equently required for adhesions or the p r istence or recur rence of symptoms of di or irs f the biliary or gastro intest al tract In the biliar tract the cause may be nil mmation r stone of the common or hepatic duct which a in cce sible at the primary operati na Ilat r orked its nay into the common bile duct Other cond tion ne es itat ng later opera t ons a e chr nic ch langeit and chron c pancreati tis developin as a result of the advanc d pathological changes found t the prim ry operation adhe ions and tistula I the gat o intesti altract the reason for the retu n of s mpt ms is ic y probably the omis ion of ga tro-entero tom; at the origin ! operation to the e cis n f a chronic ulcer or the clo ure of an acute perfo ated ulcer

Condit ns occut in from e ral months to se eral no fiter the prim operation are chronic ubscute o acute ob t ucti n due to chessons ici on lo recurrent i gunal herma margnal ulce muli nam and pera t anal ob truct e ployusm fiter the losure f an acute perfort i dule with ut gate o t t m. Ah n ed

biliary tract disease large peptic ulcers with con siderable perulecrous exudate and diffuse suppura tive conditions are especially permicious as they may lead to pathological changes requiring repeated operative intervention

The formation of pentoneal adhesions is a delen sive execution to stop the bacterial invasion. Fre quently however the adhesions create a mechanical obstruction. The damage in such ca es i due to chronic induration of the delicitie submucosil and sub-cross it see with mechanical interference due to contracting or constructing fibrous tissue in the form of membranes bands or state.

Acute appendicitis is one of the mot common primary causes of secondary operations Appen dectomy may be followed by adhesions intestinal

obstruction or facal natula

After surgery of the gall bladder and bilary tract adhesaons to the heptite and common duts the liner the duodenum or the hepatic flexure are found in more than 9, per cent of the cases in which a secondary operation; done These adhesions are formed as the result of infection trauma hemor chage conge tion and stass and failure to protect ray pertional surfaces.

Operation for peptic ulcer brings about a cure or at lea t marked relief but in a small percentage of cases po toperative symptoms are pronounced and operation may re eal adhesions or di ease of an adjacent it cus—the gall bladder liver pancreas or

appendix

Vicious circle or a Peterson better describes it gastine it is may occur in four different ways from the backflow of duodenal contents through an open pilorus from reguegitation through the proximal loop from mo ement of the gastine con the proximal loop from mo ement of the gastine con the proximal loop from mo ement of the gastine con the proximal loop from mo ement of the gastine good from the distal guinal loop. In \(\text{In}\) as studies of the function of the gastropicula stoma it has been found that in the same patient the food sometime passes through the new opening and sometimes through the pilorus. In some cases the proximal continuation of the patient of the patient of the gastropiculations and the patient of the patien

gastroje junostomy than following gastine resection. Recurrence of an inquisal bernia follo ving opera tion depends upon the type of the herma the degree of the hermation the character of the involved structures congenital indiveness the patients age the type of the primary operation (including the type the type of the primary operation (including the type the primary operation of the primary operation of the structure of the top the primary operation and the after-care and the day many operation and the after-care and the day of the primary operation per ce to all impusal herma are direct hermir. These recurrence frequently thin the indirect type beca c buffer itssues to the intra abdominal becase the primary operation of the contraction of the primary operation.

force are more difficult to ecure and retain in place
Saxver Las MD

due probably to lack of support of the undersurface of the left diaphragm fleeting bone pain attacks of comiting

SLSMAN states that spontaneous rupture of the spleen is now a recognized catastrophe but in most of the recorded cases of splenic supture the spleen was nathological Spontaneous rupture of the at n rmal spleen occurs most frequently in malaris Solenic rupture may be a complication al

leuka mia typhoid pregnancy and acute infection The symptoms of ly resemble those of true matic ruptur of the spl en There is no uniformity of or muon as to whether the rent occurs most fre quently on the co ca e or the convex surface. In many cases a subcapsular hamatoma forms and

motures I ter

An apt rently spontaneous rupture of the spleen may be a traumatic one with delay of the sympt ms due to the fact th tith hamorrhage a subcapsular at bist or as prevented for a vhile by a temporary clot

A case of sno taneous runture of an apparently normal spicen is reported Susman was able to find only six similar ca es in the literature

CYER J GLASPER MD

MISCELLANEOUS

Wilton A J. Visceroptosis La 1 10

Usceroptosis appe is to be more common today th n it was thirty year and Its s mptoms closely resemble the e of recognize l or anic lesions

In e ery case or seating the characteristic mp toms of visceropt sis there; abnorm I mobil to of some part of the intestinal tract. All case of the ptosi shot dilatation of the stomach or intestine but in the all elice of an ob tructi e factor there i

no hypertr phy of the muscular wall The acce sory membranes hich a e seen in ta es of visceronto; are unquestionably of congenital origi there is little or no e idence that they re formed as the result of chronic intestinal states. In nati nt ith ell leveloped pto is ther re often definite change in the general body truct re buch pats nt are relats elv fra l'and th'n nith drooped sho lders a lord 1 a nar ow flat chest ar l a protrudin flabby lower abd men In ad ance stages of the codition the patient usually ho s abnormal m tal chara tenst co with a te denc to and le pontency

condition of each limited to ome; lales a feet dby it is it has ea no m I bod tru tu nd do not de el psimpt m until late nife There in enden ett t ptop ped po es to the i lopment i ga tre r luo!

nal ul e ati n

Is er fto is is in h mor common in omen than in m n because n omen the postus i mu cles are le il i l pet in men the vinptom i ot appea until the a los f tine a th tt A . fl te m iti ag bera E

The symptoms of visceroptosis clo ely resemble those of localized organic le ions the treatment of which is almost entirely surgical. The patr to rarely free from di comfort but often there i no progress in the symptoms after a furation of many years There is a thing character tic about th pain Comiting is common and h matemess a sometimes frequent

ray examination 1 of greater value in the liagnosis than the history and physical find g I tosis i usually associated with atom (if emal value with the positive findings a the ab ence of evi tences of organi d ea c ith similar symit me

In no case of vicer (to is should operate treatment be considered until medical measures have been thoroughly tried. In the m heal tre t ment the attempt should be made to impro e the patient det overcome the con thation increa-

the postural tone and imrro the mental outlook Surgers sho ld be attempte I only a hen med cal treatment has p oduced no beneft and then only if the sympt m are definited localized to one si cas in which an organic le on mi ht be nre ent. When operation i recto med inalvisedly it lends to an exacerb tion of the symptoms rather than rel f

CARL J (LAS I M D)

KE V LE T VI

Wilkie D 1 D Acute Infactions of the Lower Abdomen 1 16 Grac - Ob 1 10 7 xl 13

The author ma atain that there are to ename and e entill differe t he e of the a ce ha viz acute inflammation of the all an larute obstruct on of the lumen loute ant endiciti being p imards an recti e I sion gives use to maist e nore in pareria rap i pul e epigatine de miori ours or I orut ne and local te ernes a l Acute annen licular 1 tru tian causes nerity acute epige tric pan and mit ng ten witho t an incr a in the ule r temperature The local sens are those f tendern s and negative Acute ppends far of tru ti n feman is immediate ope ration Aut nflammat n of the ap nix is u ually b st tr ted in the same va but if it? u re o nized until the f urth day and there is e tience of local atton it i wier to treat it on e nectant line u tl recovery takes pla e or the

e acuatt n of n b esin e an The auth r h found that in lat cases in tilst tin f the a m ar tom is a val 11

foun t t the operation Jeju tm ma be ile as ng meas re a ? s per ce t of the f t I aves ntest nal of tru t R

Primro e & Abdominal Su g ry in th Presence of Infection Cau ed by the Streptococcus Hamolyticus (S g o 7)

is present

The uning respective to the state of the sta jury t the 11 t lotheld I ur ace It : po llet rn txtni m ipulatis within

GYNECOLOGY

UTERUS

Toth I Conservative Operation for Fibromyoma of the Uterus (U b rdas ko servat a Openeren de Fibromyome der G l erm tter) Oroskép 4s 1927 xvii 28

During the past eight years the author has per formed a rad cal addomnal operation in 47 cases of fibromyoma of the uterus with three deaths 63 per cent) and radical saginal operation in 11 cases with three deaths (27 per cm). The causes of deaths in the three cases of abdominal operation were general lipomatosis sleeps and thrombosis respectively. No farthly re uflet in forty cases in Ninth the myoma was a polypous development and was removed by torsion or crushing of the pedice. In farty cases of submucous envelocation one cases of submucous envelocation one cases with the companies of the pedice. The cases of submucous envelocation one cases of submucous envelocation one cases of submucous envelocation of the submucous crushes of the pedice times because of the high location of the submucous growth.

In the ca es of sounger women every effort i made to preserve the uterus and the capability of conception. In forty such cases in high the abdominal approach was used one patient died a mortality of 2.5 per cent. In 26 of these cases the aubmucous tumor 1 as per leicled in the remaining fourten cates at was broadly sessile or even intra-

In cases of myoma of the pregnant uterus opera tin is performed only when there is no hope of carrying the pregnancy to term. Of nineteen such cases twelve ver operated upon radically and seven conservatively.

ADNEXAL AND PERIUTERINE CONDITIONS

Robinson M R The Effect of a Castration Dose of Roentgen Rays upon the Rabbit O ary An Experimental Study with a Clinical E alua it n of the Problem of Ovarian Irradiation 4 J R ig i 10 2

The overses of both virgin and gravid rabbits were subjected to castration doses of roentgen rays. The units of dosage and the physic logical conditions corresponded to those of the clinic

Of the three type of follicies the tertiary proved to be the most susceptible to radiation and the ovule the most sen size part in the great estatem. The interestiated gland (he folliallis the function of the corpus luteum) offers the greater treastance. This anation in suce ribibitive is in accord with the Berg inc Tr boudeau lay— The mre lable the function state of at sure the greater it its radiocens increase and in erech the most table the kine to state the less its response to

irradation During the gravil state the kinetic energy in the ovary 1 greatest and its radiosensitive ness 13 most acute During this stage not only the tertiary but the secondary and primary follicles are coursed.

Robinson points out the fallacies in the experimental methods and data of men \text{\text{No have}} had send the offspring to irradiation of the parents He draws the following conclusions from h experimental and clinical

observations ?
A castration done of roentgen rays does not affect the primary follicles sufficiently to interfere with their normal function after the amenorations over This amenorations as due to the dominant and retarding influence of the interstitial gland (corpus lutterum)

Interd The primary effect of a castration does is simulative in character There is a hasteming of immulating time of the folleles but the ox a degreater before the cycles completed. The so called stimulating effect of small does of rootigen rays in in reality an intrest result of foreign protein sensitization resulting from this breaking down of the owles in view of this it is safer to rely upon the oral or subcutaneous admini tration of specific glandular products

3 Temporary castration can be accomplished and the dose required is in inverse ratio to the age of the patient

4 There 1 no basis for the fear among clinicians that pregnancies following ovarian irradiation with temporary castration may result in offspring showing physical or psychic defects

O arian to liation during prignancy particularly during the first half of pregnancy is detrimental to the offspring and should not be undertaken unless it i the intention to interrupt the gestation Chastes II Hearock M.D.

Mayfield A L Papillary Cystadenoma of the Ov ry \ \ \ \ \ lkac l M \ d \ 1927 \ xxv \ 236

Markeld reports a study of 100 cases of papillary, cystadenoma of the ovanes. The frequency of these tumors varies from 13 5 to 55 per cent and they constitute from 16 3 to 18 per cent of all cystic ovarian tumors. The etiology and the histogeness have not yet been defined but many theories hive been ad anced.

The symptoms usually appeared late and depend ed on the size of the tumor and the presen e or absence of perforation of the capsule or torsion of the ped le. In siz cases the ovarant numor was discorred during general examination. The most common symptom was abdominal tumor. I survar ingin type and location was present in 50 per Hertz J Monod P and Roux Berger J L Abdominal Drainage the Method of Mikulicz Results in Thirty Four Cases Du dra ge abdom nal a propos du procédé de Mik lez résultats d près trente-quatre bet v i naj B il et mém Soc nat de ch r 1927 lu 305

The authors review that four cases in which abdominal drainage was established by the method of Mikulize-fifteen cases of acute appendicits two cases of cholocystitus one case of cancer of the rectum and sixteen cases of support, the subjungitis

The case at term super obsopping a superior to perform the analysis of the performance and three with gangerine of the appendix In six an abscrss was formed and in nine general pertonites developed. All of the patients recovered in only one case was there a slight weakness of the abdominal wall (not a true extertation) and in only one a freed fisted. The fistule was closed in the days. In three needs of appendicties in which dramage was established with a nubber and gause per cent and of the nine cases in which recovery resulted a fixed fistula developed in three purilent pleurs) in two and eventration in two

Of the two cases of cholecystitis in which the

tive cholecystitis and the other a case of calculus chol cystitis Recovery resulted in both In the first eventration developed and in the second a very adherert duodenocystic fistula and postopera tive hemorrhage

In the case of cancer of the rectum the Villu'rs sac was used to prevent strangulation of the intertinal loop following an abdominoperineal amputation in which it was impossible to obtain saturate re-

personauston. The patient recovered. The cas's of supportate salongith and who with generalized personauts and fourtees atile sociated personauts and fourtees atile sociated personauts Recovery resulted in all. In the cases with generalized personauts there was extend faults and in those of localized personaution one small eventration. Hertiz hunted the use of the personaution of the

tonization.

The authors conclude that the \(\circ\) indicates method of dralnage gives great security in serious cases a d that complications are no more frequent following its use than follo ing other drainage methods:

BACTER C BURKET MD

MISCELLANEOUS

Wh tehouse B Some Problems of the Men trual Function with Ob er ations on ti e Relat on of the Grassian Follicle and Corpus Luteum to Pathological literine Hæmorthage La 1 19 7

The ge erally accepted idea that the menstrual function in man corresponds exactly to the stage of pro estrum of the lover animal is not correct The hymorrhage fom the central tra t in the mammal a can and does occur in diffe ent species during pro cestrum and at the end of pseudo pregnancy Ovulation occ rs in man between the thirteenth and se enteenth days of the menstrual c cle

The author repeated Halban experiment and ctually excised the cornus luteum. H. produced a men trual period 36 t 48 hours afte ex 1 ion on the eighteenth day of the menstrual cycle. The follor me period courted within a few days of the normal period. In estigations of the graat n foll le were made hel re its runture on the thirteenth day of the cycle and the re Its yere similar to the se btained with the de truction f the corpu luteum

It is e ident that both the grasfian I llicle and the cornu luteum contain an acti e p ncinle the withd awal of which from the ir ulit on cause necro i of the endometrium. The conception of the menstrual fun t on has a n act al applicat on in the irregular uterine hæmorrhage associate i with trauma n fibr cy t co aries prolapsed o aries and chronic infl mmator disea e f the ovalies due to the death of m turin gra fian folli le and pathologi al c p ra lutea The commer tal va ta and lutern extracts re

unsatisfact in probably led us the are not made fr m mmal ov ses lus g pro cestr m r the ea l months of pregnancy TILYDBI MD

Fellweg P The Results and Value of Roentgen Castrat on (Lb Fold Wetd Roet nk trat) M h idll h h o l

The author eport the esults of roent en castra tion in 2 o case. Re-exami at ons we e made one to t o years after the irr diation in an effort to determine to v hat extent the undesirable effects utweighed the curativ results

In 82 6 per cent of the cases the subjective results nere satisfactor in 8 6 per cent the objective gain the overbalanced by unpleasant sensations while per cent the vomen regretted having taken the treatment

There was an average increase in weight of 5 kgm The symptoms of loss of function were about the same at the various period of life a fact contrary to the usually accepted belief that the e symptoms are e pecially to be feared in young nomen In 33 per cent of the ca es there was complete loss of sexual desire and pleasure after the irradiation in 37 per cent these functions remained unchanged while in the rest they were more or less diminished

In hyperfunction of the thyroid gland castration i beneficial while in hypofunction roentgen castra tion is often followed by a marked accumulation of

No t of the failures occurred in women with a labile nervous system or psychopathic taints. In such women ho e er any sort of an operation is often blamed unjustly for must we forget the n vehic influence of the lasty and physicians who consider roentgen castration dangerous

A Study f constitutional types shows that a thenic females in general react more favorably than the sthenic- an observation that can also be made concerning the spontaneous chmacterium. In general it appears that there is no basic difference be t een the climacterium produced by roentgen irra

diation and the natural chinacterium

By narroving down the indications the failures can be reduced for that reason psychopathic females are best entirely eliminated Great care should be u ed in ca es n which function of the thyroid gland is deficient Greater caution i necessary in well built and well nourished women than in delicate ones Before beginning the treat nent the patients should ha e their attention called to the sequele and they should be p otected against the effect of outsid The author does this by handing the influences patient a special p inted slip. In the treatment of the variou chmacteric symptoms the use of blood lettin in large amounts which may even be repeated and of saline purgatives have proved of greatest benefit

applied according to these principles roentgen castration : a beneficial curat ve remedy

ION SCILB RT (G)

cent of the cases. Menstrual irregulants, usually menorthm or metrorrhaps occurred in 59 per cent of the cases. In half of the cases vesical symptoms were manifested. There were miscellineous gastro intestinal symptoms including constipation and womiting.

I xamination disclosed the presence of abdominal durant on underly six cases and ascites in thirty one It was often impossible to palpate the tumor separately from the pelvic organs. Fumors occurred more frequently on the left side. The greatest histority was encountered in differentiating cist

adenoma and utenne fibromyoma

In forty three cases the tumor was bulateral and if its seven cases it was unleared. Impliants on other organs vere common and there vas metastas to lymph nodes in four case. Histologically, three were three types of tumor the first with regulaters of cuborial or evindencel epithelium and abundant stroma uniform in arrangement and struct the second with malignant changes or cell in the transitory stige and the cells and stroma in avanous arrangements and degrees of differentiation and the third with definite malignant change in the cells and stroma.

I rogno i depended on the presence or absence of perforation the degree of malignancy and the extent of the involvement of the surrounding tissue

Di regarding the degree of malignancy 44 per cent of the patients lived vithout recurrence of symptoms for an average period of seven years and seven months and 35 per cent of the patients died from recurrence within an average period of two years and two months after operation

Klein P Malign nt Cho lo-Ep thelioma of the Tube Following E tra Ute ine Pregnancy (L lee das Ch no cp th hom mal gn m de T b na h E tr terugra d tart) A h f Gy k 19 7 x, 60

The author reports the sixteenth case of mal gnant chono opsthelioma of the tube following extra uterine pregnancy that he has observed. The patient a 21 year-old authorat was admitted to the clin c in a very anomic condition due to hamorrhage

She had not menstruated for four months \(d \) b pedied dumo the sex of an olive at the ureteral orifice broke off hen touched \(\) honther tumo bout the size of a small orange was located behind and to the right of the uterus. The portion was firm and the uterus small. The heart and lungs ere normal. When examined microscopically the tumor shirt broke off pro ed to be a choice \(\)

epithelioma. At ope ation the uterus vas found to be pale. The right tube normal at its onem later became thecker than a thumb and terminated in a hamatociel ac vision as as large as an apple. The left sidne a were normal. Wedge excusion of the tube vas per

formed

Severe gen tal hamorrhages occurred five days after operation ind a turn r thing e of a hazel nut

appeared on the opposite wall of the agent remais was cauterreed Another profice hemorrh ge occurred nine days later and a tumor the ize of a walter was performed for the set of a walter was caused from the set of a walter was caused from the set of the Augma and addomen were repeated, and to the Augma and addomen were repeated, and to the Augma and addomen were repeated, and the set of the Augma and addomen were repeated, and the to the Augma and addomen were repeated, and the to the Augma and the the Augma and the the Augma and the the Augma and the Augm

The author's case is the only one on record in which treatment of this particular con uson was followed by a cure

low W intrat (6)

Miller C J The Rational T carment of Tubal Di case S & Cy & C O5 ! 192 sl 110

Miller advocates the conservative restaunts of tubril die case. The operation is less retions and dangerous the postoperative complexitions are fewer and the mortal it is lo er when the part ents tre allowed to recover completely. From the original infection before any operations performed. Expect and treatment may result in as high as 8x per cent of constituints, are infection. You guizment in favor of eat constituints, are infection.

Miller a routine treatment is ab other rest in hely until the temperature has been normal for teach ago or more. During this period the patient is treated amptional results and examined bimmanually seat attention being paid to temperature Buttunio. When operation is performed the extent of the procedure is based on the conditions present but usually both tubes should be removed this is always of a fif the condition is tuberculous. Special effort should be made to conserve own and issue

T LLOYD BELL ND

EXTERNAL GENITALIA

Schube t G Twenty Ca es of Operati e Forma tion of a V gin by the Schube t Method (Z anzg F II v S h d nt ld n h Sh h nl Z t abb f G v k 9 7 h 8

Schubert defends hi method for the productor of an artifical Jagma against that of Rabino is his hours good published his results in aircase operat of the cases done by his method by himself and others as collected from the time of the cases done by the method by himself and others as collected from the time of the cases done by the method by himself and others are collected from the case of the cas

The most apportant po at in Schuberts method to making child bearing po sible. This can be done only when the again I def cit a sasoc ated the a mensitual in put in Schubert refers to larger a classical case, the high the woman later ga e bird to three children. For the formation of the sagns Schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert uses the large intestine Bald 1 the strain schubert was the large intestine Bald 2 the strain schubert was the schubert used to be a strain schubert with the strain schubert was the schubert with the schubert with the schubert was the schubert was the schubert with the schubert was the schubert was the schubert with the schubert was the schub

and non protein nitrogen values and by low normal or decreased sodium chloride and plasma protein

values

The administration of alkalies is dangerous as there is either a normal acid base balance a com pensated alkalı exces (h) drogen ion concentration normal carbon dioude high) or a compensated alkalı deficit (hydrogen ion concentration normal earbon dioxide los) The last finding is rare

The comiting of pregnancy should be treated by supplying the defciencies by food fluid and salts Each case mu t be treated according to its particular

requirements

Experimental work indicates that insulin with the intravenous administration of glucose restores the glyco en stores much more quickly than the intra venous administration of gluco e alone

Long period of comiting and semi starvation produce chan e in the body which cause death without demonstrable pathological changes In such cases death may be de to pathological physio

chemical changes in the body cells

In conclusion the authors state that the systematic study of the metaboli in in general and particularly of the carbohydrate metabolism together with a study of the acid base balance of the body will yield more infor nation vith regard to the etiology pathology and treatment of the vomiting of preg nancy than speculations concerning derangements of glandular function

E L CORNELL M D

Mooe W F and L wanc J S Continuous Endob onchial Asp ration for Pulmonary Edema Complicating Eclampsia Am J Ob 1 9 7 13 55

continuous endob onchial aspiration the authors use a flexible spiral tube of Ge man silver 1 ire which 1 52 cm long and has a diameter of 3 5 At the p orimal end there is a collar for the attachment of rubber tubing The d stal end termi nates w th openings on the side and end The tube is co e ed by a special process with a very thin film of rubber which does n t materially necesse its dameter Th pox mal end emergin from the mouth is secu ed by means of a head band with an djustable wi el joint hold. The tube is connect d ith a suction mach ne de eloping about 10 lbs of negative pre su e The p ition of the patient is the same as that used for bronchoscopic work at the Jackson Bronchoscopic Clinic

The tube is u ed in one a e f marked pul monary ord ma There as no noticeable embarrass ment of respir tion while it was in position. During its I st ins rtion a e ere convulsion la tin, four minutes occu red but the in no way interfered with the pos tion of the tube or with breathing The patient's colo remain d good and when the tube was in posit in n incr ase in the numb r of con ul sions was noted. There was a coughing during the ntroduction of the tube or while it was in place

I L C R ELL M D

Hochenbichler A The Maternal Mortality of Eclampsia in Our Clinic in the Period from January 20 1910 to September 20 1926 (Ueber de muette Iche Eklamp esterblichket an unserer klink n der Zet von 1 20 to to 9 0 26) Ze! Ibl f Gy k 1927 1 486

In the period from January 20 1910 to September 20 1026 at the Obstetrical Clinic and Midwife School of Vienna there were 15 cases of eclampsia with fifty maternal deaths a mortality of 156 per cent. In the thirty seven cases in which treatment with artificial sunlight was given the mortality was 5 4 per cent whereas in the 238 cases which were not treated in this manner the mortality was 20 1 per cent

The infant mortality of the two groups showed no noteworthy difference. In the cases in which helio therapy was given it was 30 7 per cent and in the others 37 3 per cent

The author believes that the irradiation relieves the heart and lungs of strain by drawing the blood to the skin. In hypertension and eclamptic attacks a heavy strain i placed upon the heart Helio therapy often causes a reduction in the blood pre sure of so mm Riva Rocci in ten minutes This treat ment is much less dangerous than the use of chloral FREEND (G) and venesection

Vignes H Habitu l Abortion (A orteme t hab tuel) B Il Soc dobt id gy ec de pa

The pat ent hose case is reported in this article

was a woman of 24 years who consulted the author in July 10 4 at the beginning of her third pregnancy to determine the cause of two previous abortions in order that a third might be pre ented

She was married at the age of 22 years After her first abortion which occurred in the third month of pregnancy the embryo was etained for two months The second abortion also occurred after two months Her last menstruation before her third pregnancy occurred from the twenty third to the twenty sixth of April She complained of nausea vomiting and violent headache. Twice there had been a slight vaginal d charge of a type to sug gest the beginnin of another abortion. The uterus was found 7 cm above the pubis surrounded by considerable œ lema

Two days later a third abortion occurred. Two Wassermann and two Hecht tests were performed on the pat ent s blood and one each on that of her hu band but all were negative

On hi tological examination the fetal parts were

found to be normal but the decidua showed diffuse infiltration inflamm tory nodule and abscesses Mercurial treatment alternating with b smuth

was prescribed In June 1025 the patient was seen again Her last menstrual pe iod had occurred from April 11 to

She still complained of headache but there had been no vomiting Treatment with bismuth by intramuscular injections was pre cribed

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Cruickshank J N Some Chemical Aspects of the Toxemias of Pregnancy Clase w M . 027 CVm 1

The author classifies cases of townia clinically as follows r Albuminuria-ca es of touc albuminuria

of pregnancy which show no other noteworthy toric s) motom 2 I re eclamptic toxemia-cases showing al

burning of pregnancy associated with other definite toric symptoms but not falling into Groups 3 OF 4

Nephr tic toximia-cases of albuminuria of pregnancy definitely associated with nephritis 4 Eclampsia -cases of albuminuria of p egnancy

associated with other toxic symptoms including eclamotic convulsions

Cruickshank states that according to the findings of all recent investigations there is no foundation for the theory once ad anced that eclampsia is closely related to uramia. Many cases of eclampsia and to a less degree cases of pre-eclamptic toxamia show oute a definite azotamia although in only excentional case is it of the high grade found in chronic nephritis Cruickshank suggests that there may be some form of sen itization to foreign protein or some form of poisoning by its decomposition prod wets.

In the author's series of cases the highest values for urea nitrogen were found in the blood of women with eclampsia and pre-eclampsia but a striking feature was the low readings for blood urea hich ere made in man of the cases of pre-eclamptic

to tarmia

With regard to the relation between the total non protein in rogen and the urea nitrogen it was noted that in a large p reentage of the patients with pre eclamotic toxemia an abnormally lo v proportion of the non protein nitrogen of the blood was present as utea nitrogen. Une acid as as a rule quite del initely increased in the blood of eclamptic patients while in the other groups this increase was not a teature Indeed in the cases of pre-eclamptic toxxm a the amount of une acid tended to be low Like the one acid preformed creat nine was most abundant in the blood of eclamptic women and least abundant in that of toxumic women one of the four types of totamia described by

the author is characterized by gross disturbance of the amounts of nitrogenous constituents of the blood

The chief conclusions to be drawn from the study of the mitro enou metabol sm in the toxamas of pregnancy are the following

While there is gross recention of nitr wen such as is found in uramia many cases of pre-eclamite tourmia and eclampsia show quite an appreciabl degree of azotemia

2 Protein appears to be harmful in these cases mainly because of its protein structure but also though to a less extent because of its nitrogen content

The author characterizes as erroneous the theory that a primary chloride retention is responsible for the orderna

In every group of cases studied there were a fe which show ed either unusually high or unusually! readings for blood chlorides but the mean values of the readings in each group were within normal limits and none showed any characters to alteration

in the chloride content of the blood It appears that the normal pregnant woman at rest in bed and on an ord nars mixed diet by ses much less urine than is generally regarde las pormal for the healthy acts e ad it When a mple altu minuma or nephritis complicates the pregnan y a 1 the diet is restricted to moderate quantities of fu I alone a good divires is results in most cases. In the more severe forms of toxemis ho ever this dures tends to disappear so that both in pre-columnia

toxemia and in eclamp is itself the urmary output

is small as compare I vith the fluid intake The general conclusions drawn by the auth ! from these observations are that the peculiarities of the composition of the blood and unne ab h characterize the later months of normal pregn ner are maintained an I may be exaggerated in all of the toxemias of the later months of pregnincy that while there is no particular tendency t and agotemia in any of the varieties studied a moderate degree of attrogen retention may be prese 1195 "

developed eclampsia and that the hydramic state of the blood which is characters to ot late pregnancy and the cedema which de etops in certain tases of toxemia do not show any relationsh p to the chioru content of the blood or to the output of chlorides the urine ROL PS L

Dieckm nn W J and Crossen R J Changes in Metaboli m nd Their Relati n to the Ireat ment of Vomiting of P egnancy im 3 Chi J'Gynes 970 3

Comiting of pregnancy is due to a derain me tol the maternal metaboli m p rticularly of the tarbo hydrate metabol m

The pathological urine a d blood findings and the signs and symptoms are due to vomitin start at of

and dehydration Severe omiting of pregnancy i characterized by normal or inc ase I carbon d'oxi le hy lorgen i n formed and followed by a Wertheim hysterectomy with Mikul cz drainage

2 If the general condution is poor if the patient is very flat if the cancer is inoperable or if there are doubts as to operably the cancer is inoperable or if there are doubts as to operably a considerable of the cancer is inoperation in performed and radium is applied. The considerable of the control is performed and radium is applied methods to be a considerable of the control in the con

S EVATORE DI PALMA M D

LABOR AND ITS COMPLICATIONS

Rasci hofer G Face Presentations (Uebe Ge ht halt n en) Zi h f G b ish G k 927 c 533

In 8 i 611 births occurring in the Second Gyne colorcal Chine of the University of Vienna during the years from 1500 to 153 face presentation occurred in 30, 65 per cent). The ratio of face presentations in the first diameter to those in the second diameter was 16 13 and the ratio of priming become diameter was 16 13 and the ratio of priming the within 150 per cent). We can offer a second diameter was 16 13 and the ratio of priming the within 150 per cent). We can offer a second diameter was 16 15 per cent). We can offer a second diameter of 150 per cent). We can offer a second diameter of 150 per cent to the view for the second offer per cent to the second offer per cent to the second offer to the second offer per cent to the second offer per cent to the second of the per cent to the second of the per cent to the second offer per cent to the second of the per cent to the second offer to the second of the per cent to the second of the

pregnancies seems to be very rare. The majo ity of the infants (263) were born at term but thirty seven were premature. Sutty five and he tenths per cent were born alive and active and 177 per cent were born ith asphyxia. Of the latter 4 per cent were revived. There ere sitty

on still britis

The author compares these statistics the older

The factors which may lead to presentation with extension of the head as indic ted by the author's cases a e ummarized as follows

I ushin of the chin away from the che t In sixteen ases (2 ; pe ent) th was due to a cou cential str ma in to others to the pe-ence of a large coil of the umbilical co d between the chin and the chest a d n one t the nterpo ition of an arm

of the fetus. No instance was observed of twins in a lon-itudinal polition presenting in the pelul simultaneously with the occiput of one over the linea innominata

2 Shortness of the fetal neck especially in the

3 Variations in the position of the fetus due to

In six case there was hydramnios with smallness of the fetus in thirty six case abnormal flaccidity of the abdominal wall and in five cases abnormal looseness of the joints of a macerated fetu

Delivery was effected without artificial aid in 83 per cent of the cases In to cases there was an abnormal backward rotation of the chin

Amon-other ctolomical factors such a transverse position of the uterus and transver e and oblique position of the uterus and transver e and oblique po ition of the fetus the interposition of small parts and low implantation of the placenta the author asknibes considerable importance to the shape of the fetal head (marked len intering of the occupitatione). He believes that in 30 per cent of the cases the fetal head; of the dolichocephalic type

In conclusion the author describes further the chinical course of labor in face presentation. The old rule that in cases of face presentation labor should be allowed to proceed spontaneously it possible a given further support by the erecent statistics from Vienna. W MERRIZ (G)

Murray E F Ruptur and In ers n of the Uterus Ed nb gh M J 927 x Ed nb gh Ob t S c o

Murray believes that the danger of rupture of a star and a star has been evergerated. In order a star and the star area thinner than the surrounding its uses and in these cases it was tou hand firm and showed no evidence of threatened rupture. A rupture occurred in only one case Murray believes howe or that a uterus that has been excluded should be gazered as much as possible been excluded about the star and the star

Traumatic rupture occurs after version. The dange of pe forming vers on when the hiquor has dained a vas the uterius is topically, contracted Bardlis ring is in evidence and the fetus is tightly gripped cannot be over emphasized. Bandlis ring is frequently detected only when with the patient under anæsthesia the hand is inserted to perform a version. There may be no external evidence of it. Bandlis ring; i better described as Bandlis band as a broad zone of the uterus is in tonic contrat unon.

After version the author makes it an invariable rule to remove the placenta manually. This decreases the danger of hæmorrhage and excludes the possibility that a rupture may be overlooked

Traction of the head through an incompletely dilated on whether with the forceps or as an after

On July 24 the patient noticed the cessation of the malaise due to the pregnance but later she leveloped a dental absce s an I suffered with an affection of the Li iners an I ureters particularly on the left sid Some against blee ling i as also note ! On July 30 a lourth abortion occurred

The hi tological findings were the same as after

the third abortion

In September 1925 the patient again consulted In nes complaining of frequent chill histo v it was thought that her con lition might be due to pyorrhora and she was adve ed to have her teeth attended to

On February 6 she r turned stating that she was again pregnant and complaine i of ga tric an i

renal d turbances and light malar e Ba tenalogical examination of the urine was

negative Exami ation of the vaginal secretion showed streptococci staphyl xcocci pseudo diph theritic bacille and colon bie ile Cultures from the gums showed streptococci amorbæ and pirilla In autheen us vaccine was prepa el from the

buccal and vaginal strentococci stanhi lococci and n eudo inhiberitic bacilli. T elve injections were given. The first injection caused a pseudo phieg mon'us reaction which was quite inten e the leucorrhoea at first be ame mor profuse but then

decrea e l an l finally ceased

Another bacteriological examination of the vaginal secretion made in May was negative. On October 17 1025 the nationt was delivered of a hyper female child weighing a 60 cm. In the puer pe sum she leveloped a fe er ein ng from 37 to 38 d grees C for which injections of a stock vac inc of streptococci nere given Four neeks later an ab cess formed in the I reast

The child developed ophthalm a (staphyl coccus) and then outs From its impe fe t cramal c i. cati n and f om other signs and symptom the pediatrician who examined it concluded that it was

syphilitic

The author believes that shill n sp te of the negati e W sermann tests siphili maj ha e hi i something to do with the pat'ent's confition the habitual abortion was due chieft to the b ctc a cau ing the prorrhera al colum and that the vaccination was responsible for the continu tion of the fifth pre nancy to term.

SLATH DIPLM MD

Reeh Lancer and Presnancy (Cancer et gr sesse) Gyndrol & c 1927 X

Reeb reports a c se in which a squamou -ce'l en thehoma of the cervix a spr ent this t carsarean section was pe fo med under th r angeth sia and a n rmal child of 500 Fight ich eren. The section was I llowed imme ha el by a complete bysic ectors; with remor 1 of the parametrum

The co-existence of a cancer of the cervix with egnan ; at term : r re The case repo ted as the only a e in more il n 9 000 leli er es in th

ruthres lin he b reports I sell, three ca seen by him in the general need of need strage in which the cancer devel sed bet een the secont an I fifth months of pre nanc In a review o brench betetrical literature publi hed an e te war he found only twelve cales of utenre canea sociated with pregnancy Or the six in wh hithe les in occurred in the first hall of pre aince for were operable. Of these I ut operable case a taginal est spation was done in to a Westle a hysterectomy in one and radium lirra hation in on The in perabl cases were treated with radium

Of the six cases in a buch the cancer developed in the second half of pregnancy three were prera ! In on of the three operable cases a caratean secu and mple hy terectomy were dine in a other ra hum arra hation as given and in the this is cre arean section and talium urtail ation wire done In ne of the inoperable cases the a lat not radium tas follo el by exsarean se tia sal histerectomy In the second casarean se ton lorro s op ration and the apprecation of rature to ere done. In the third lorros ofers on was

he forme ! the fetus was lea! The se en cales in which ratium was ap ! ! are he used briefs. The te alts of the treatme t were as follor s a ecurrence after tho years in one case (operal le) no se u ren e after fitten m nis in one case (operable) recurrer e after thre m nths in one c e (in peral le) recurrence after ten months in one ca e im perable) and death son atter the treatment in one are In to cases in which loses of rad um were apple to the cervit b the abdominal and agen I route the les on com pletely I appeare I aft r so e al weeks but the time t till too short t wa rant a definite con las a Of the five a es in which op ration was pe form d death occurred soon after the operation in one and a ecu r nce I vel ped n two Troofs e patients were fre from mptom after eight vers. The author gi es the f llows & treatment ; tha

type of ca e DURING PRP NI 1

If ti can er s peralt and the hilus u el and four mer later & atl r hum Werth m hist rect mi i perf me i z If the ne s ope at l'and the hills u'e

ra um aght til four necks t If ribers he t e me sect ni fll eti ri far i nei ani mit s If the asc t neral le ratium is ppliel ni it e tems e t a is then don and mel i sac follo I b sul total amputat n with th ap l a ton of ration t th tump f the ever by th abd min I and yam I rout L ter if the re d th rest t the ervit t mire! i mhast et

ILRI G LAS R

It the gine all onits n is good and if the tm sem pett a aut necton i per

reported in the absence of a high blood pressure the presence of a very high blood urea without con vuisions (588 mgm on the eighth day) the absence before labor of all signs of severe toxemia except codema and picosuria and the occurrence of recovery potwithstanding extensive necrosis of the three

MISCELLANEOUS Monher G C A Study of Maternal Deaths J

Mosher G C A Study of Material Deaths

According to the Census Bureau (statistics recei ed July 1026) Italy has a total nuerperal mortality rate of 40 to 10 000 births with a death rate from puerperal sepsis of 16 Denmark has a maternal death rate of 10 to 10 000 births from sensis and a mortal ty from all puerperal causes of 17 5 The United States has 68 deaths to the 10 000 births Heaney of Rush Medical College while in Scandinavia last summer learned that the Scandinavian maternal mortality was o to the 10 000 births while in the birth regi tration area in the United States in the same period it was 70 to the 10 000 A bulletin of the Children's Bureau at Washington places the United States seventh in infant welfare and fourteenth among seventeen civilized nations in maternal welfare its death rate ber g exceeded only by the death rates of Belgium Spain and Switzerland

Confronted with these facts we must a first that conditions in America are far from ide! The estimated population being 111000000 and the annual birth rate 50000 it behooses us to the cause for this high risk rate in pregnancy and labor and see what we can suggest to improve our statistics.

It shoull be borne in must that a quarter of a crillion women in the rural districts of the South are delivered by midwises without training that the increasing, searcity of doctors in the rural districts makes the midwife a neces its and her climina ton a problem and that the education of our me heal students in part tical obstetricts insufficient their entire training by ing given in attendance on their entire training by ing given in attendance on their entire training by ing given in a tierdance or when the titulage of a more protected subject of the should be remembered also that ou a plusted rates include the colored race which still shows a more half of the still profit in a pureps along its rate of 38 and a death rate from other pure peral auses of 73 nearly double that of the white mothers.

Normal pregnancy is not the rule nour genera tion One authority estimates that goper ent of all pregnant women show some effects of toximia which he classifies as pathological another that about 1500 women annually lose their lives from

the direct or indirect effect of pregnancy and labor Maternal deaths are traceable mainly to sepsis eclampus accidents of labor (including harror rhage) and unwarranted caractern section. Septic

infection eclampsia and accidents may be largely prevented by intelligent care. Cæsarean section should be limited to the indication and should never be undertaken without expert obstetrical consultation.

Chuef among the many suggestions made to reduce maternal mortabity and morbality satissates as education to include the practicing physician the medical student the midwife and the expectant mother. A popular suggestion for the reduction of seguis is the compulsory reporting of ever, case of purperal sepsis following abortion or delivery at term. Some lealing obstetricians are opposed to this but in sixteen states it has been adopted Among the suggestions to pre ent eclampsia antenatal care comes first. The remedy prescribed for unwarranted existeran section is adherence to the recognized indications and obstetrial consults toon in every case.

To those of us who are apt to look on the gloomy side of the petture consolation can be derived by looking back. Casarcan section once meant a maternal death rate of too per cent. A few years ago we did not know that celampsia was prevent able. Further comparison of the record of yester day with those of today has convinced us that was ear on the road to handledge we must not hat satisfied with the progress made. A long stretch of that road must yet be covered before we reach the goal. It must be remembered that of seventeen covilered nations we are se enth from the top in rishan welfare and fourteenth from the top in maternal selfare.

The practice of contraception which extends back to Biblical times has been a matter of discussion for centuries. In the last feveral properties that the properties of the properties are the back of the properties and the properties are the hands of the physician and regarded as something to be imparted only when its use was justifiable has be nacquired by thousands of women of every age and condition married and single to be used and seminancely without hee to of the moral or physical outcome

In America buth control except in the special ce is a mensice it is a doctime that applies to the wrong elements of the population. Our potential parenthood is decreasing. In the last forty years there has been a drop of to per cent in the number of persons maring while dwore has nereated of persons from the member of the control of t

Kosmal points out that artificial restriction in the early scars of marined hie may produce senior consequence and lead to sib quent ste his or bushe the presence of this condition until too late for its correction. He advises that training in ser education be begun in the schools in a study of biology Peris Casar evon MD

coming head in breech presentation and the slipping of forceps applied through an incompletely dilated os are responsible for varying derrees of trauma to the cervix and the lower segment of the uterus

The author emphasizes also the severity of training which may occur even in spontaneous delivery at zero or in premature delivery. Cervical lacerations often extend up to and beyond the valual. In the cases of patients it ha history of repeated mi carriage or premature labor investigation of the constitution of the restelled lacerations beyond the crit to often restelled lacerations beyond the crit to the body of the uterus. Drugs and curetings to the body of the uterus Drugs and cureting the control of the con

cervical repair has not been satisfactors. The author attempts to correct the condition by repairing from above. The broal li ament on the affected site is opened as for a Werthem hysteric tom, the ureter is solated the uterine vessels are ligited out it, the ureter and the cervicovagnal juncture: I said bare. The agnal vault is then opened and the test throughly exposed through out its entire extent all scar tissue its cetted a six all muscle pained to mus lee with stout early and muscle pained to mus lee with stout early

The vault and broad h aments are then resutured Inversion of the uterus is rare. It is difficult to find evidence that the commonly stated causes namely pressure on the related fundus during expulsion of the placents or tra tion on the cord are resoon the In the authors opinion the arrangeme t of the uterine muscle is the chief con tributory factor It is generally believed that the unner utering segment is thick and muscular and that the lower uterine segment is thin This is true in the majority of cases but Murray has often found at exsarean section that the greatest thick ness of mus ie tissue is at about the middle of the uterus and that in some cases the upper part of the uterus is almost as thin as the lower se me t In such cases it would be quite e sy for the thin por tion to be pushed or pulled or even spontaneously inva inated and gripped by the thicker mid zone CR RLES F DuBois M D of mu cle

Ryberg C M Some Experiences Concerning Placental F agments Retained t tile Partu i tion 4 in b i i fy i Sc } 917 55

It is sometimes difficult to determ ne whether a placental fragment has been retained or not. The most serious symptom of placental retention i harmorrhage. In 55 per cent of the cases reive ed by the author th harmorrhage began during the first we chalter delivery and in 36 per cent in the second week.

Te er occur ed in thirty (70 per tent) of forty fie ca es In all but one it began dun a the fir t

In half of the cases the pla eat 1 fragment passed spontaneou 1). Active rem val has not been n oved fictive to spontan ous remo at In cas s of point ely diagnosed retents nit is be it to remove the fragment as s o as possible.

PUERPERIUM AND ITS COMPLICATIONS

Crook A Necrosis of the Cortex of the kid ey After Labor Pr Roy S c ll d Lond 192

Necrosis of the corter of the kidney is extremely rare. Only nineteen cases have been reported. It has occurred not only after pregnancy and labor but also in cases of corrosive sublimate poisons g scalet fever diphtheria pneumonia pentonitis and carcinoma of the stomach.

The pathological result charges are area of accross in the cortex of the kidney thrombou of the result vessels chiefly the intraboular vessels in the middle some and ugas of precusated resid sease (in about half the cases). In most case the leasons show a symmetrical arrangement. Under the capsule of the kidney there is a narrow zone of tissue which appears to be comparatively healthy. The liver is palle and the spleen presents neer tie for in the point he ir intestines and suprareal gland.

hamorrhagic foci are found

In the author's cases the symptoms included
comiting headache and epistaxis. The systolic
blood pressure was never over 120 mm, nor und r

blood p

95 mm

With re aid to the relation of old renal assess to
the occurrence of convulsions. Crook concludes
that there is as yet no evidence to prove a definite
relationship between an old nenhrits and eclamp

Suppression of ar ne varied considerably in the cases reviewed. No light was thrown on the pro-

ros s or sire yersa.

Crook bel ever that there is a close relationsh p bet een celamps a and cortical neere is, but that the two conditions cannot be considered ident all in all except one of the cases re re of the fit was

was born dead and prematurely. In the one exception two namere born alore at the eighth month. Decapsulation of the kidney lowers the i tra

Decapsulation of the kidney lowers the i tra capsular p essu e but can hardly have a y im mediate effect on uramua

It is suggested that in some toxic pregnan es the condition may be in tiated by retents n of w ter alone If the a sumpti n is co rect th tap eg no bec mes toxic when there is inter erence with the metabolism and the elimination of water alo synds me might be attributed to the degree of the interference and its effect on other metabo processes Th s assumpt on is supported by (1) the association of the pituitary gland with growth a the elimin ton of ater (2) the I nical observation in s me pregnancies of s gas similar to those of acromegaly (3) the es dence of the relation between the glands of internal s cretion and metabolic pr c esses (4) the effect of p egnancy on these gla d la acti ities and (5) the fact that no conditio exactly milar to toxic pregnancy 1 k own to occur in a mai

The author reports a cale which term nated in recovers. This cale differed fr m most others

Incusion of the lumbar fascia revealed consulterable intention of the returneal leaf of the perturnal fascia. The fascia was fluctuant and had the appearance of containing fluid under pressure. On incision of Zucherhandis fascia 100 ccm of time was liberated into the incision. The pelvis was then palipated and a stone about r cm in diameter located at the untertopolive juncture. In the pelvis above the calculus there was a small appriture from which the turner exuded. This was called the pelvis above the calculus there was a small appriture from which the turner exuded. This was called the calculus there was a small appriture from the calculus there was a small appriture from which the turner could be a calculated to the calculus there was a small appriture from the calculus there are a calculated with an attempted No on categoristic states.

The diagnosis was calculus in the right kidney pelvis and ruptured hydronephrosis with urinary

extravasation

The authors draw the following conclusions 1. Back pressure into the kidney due to in sufficient d sinage may destroy the major portion of the organ and cause spontaneous rupture of the parenchy may or pelvis.

2 Spontaneous non traumatic rupture occurs in k dnevs p eviously invol ed by some pathological condition such as tuberculosis acute focal infection o abscess formation harmophilia infarction by dronephrosis or polycystic degeneration

3 Rupture of the parenchyma is far more com

mon than rupture of the pelvis

4 Rupture of the na enchyma is likely to be

accompanied by perional hemorrhage whereas rupture of the pel is or urete is usually followed by ext avasation of urine without hamorrhage 5 Immediate surgical intervention is the only successful treatment. If the natient is seen early

removal of the bstructing calculus conservative repair packing an l dri nage will suffice
6 In advan ed cases perhiectomy is the treat

ment of hoice as it s l s likely to be followed by complications

Lou s Gro M D

Sapl ir O Th State f ti e Glomerulus in E pe i ment i Hype trophy of the k dn ys of R bbits 1 J P ik 9 3 9

G lests and v lla santa vere the brist to make a careful nest gat on of hypertr pube kidneys. They are elat the con lu ton that following the removal of on kidney in voung an mals thre is a genuine hyperpla a of the plome ult and tabules of the remain ng kidney Full grown animals however show unde si ular conditions only plain hyper to phy

Saphruel ight whit rabbit of the same litter for his e perim nt Under local amisthesia the right k le emoy d. The abbits were then klied t nter als of in thre d ys t t clie months afte th operatin. Three rabbits were used as o to lowerils in some remade of all the kdn.

The glomerula of Ludne s of normal rabbits are lagren the icut of the medulla than in the

peripheral portion of the cortex. In hypertrophic kindra's the majority of the glomeruli are enlarged and the difference in size between the glomeruli of the peripheral and central positions of the cortex appears greater. No agains of new formation of glomeruli or tubules in voung rabbut in every enforced in the content of the studies of could be suffered in the content of the c

The hypertroph, of a kidne, which follo a the ligation of the urteer of the other kidney was no greater than that in the unlaterally nephretomized animal. During the first three weeks of hyper trophy the kidneys show fir t a hyperamia of the capillaries and later on a marked cloud's swelling which probably reaches its maximum about three weeks after unlateral nephretromy. Later the changes disappear and he hypertropher kidneys were not stated to the change of the proposed the property of t

WILLIAM I CARSON M.D.

Lower W E and Belcher G W Mass e Lipoma of tle kidney with the Report of a Case S t Gy 5-Obst 19 l t

Massive lipoma of the kidney i very rare. The authors review the literature on the etiology and apathology of the condition and add a sixth case to the fie e that have been reported to date. Their case is the fourth in which the tumor was removed by nephrectomy.

As in all of the other reported cases the tumor in the authors case developed in a woman of middle age. The characters the features of the case were identical with the o of a case reported by Warthin Ingeneral the symptoms produced by the neoplasm are mid and smulize to those caused by any other tumor of the kidney. In the authors case the principal control of the produced by the

In the authors opinion lipoma of the kidney is probably less malignant than has been generally supposed

The article 1 supplemented by a bibliography and contains illustrations showing the geo s and micro scopic appearance of the specimen

JOHN G CHEETHAM M D

BLADDER URETHRA AND PENIS

Lundy J S Regional Anaesthesia for Operations in the Urinary Bladder J U 1 1927 x 1 5 5

Regional anasthesia is usually satisfactory for operations in the uniary bladder. An important factor in the success of sacral or abdominal block is attention to detail. From data presented it appears that complete posterior sacral block proluces complete anasther in that caudal block and

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Sin que J. The Results of S prarenalectoms in Spontameous Cangrene of the E t emittes (Résultats d la surranalect me dans les a negles pont nées des m mb e) 1 mel 1 r 1927 xxx 451

The author revie a Herzberg's statist cs on 110 cases of sur trienal fections (light of them his own) and 12 ce to reporte I by Lettiche In four of the ca export of lected in Herzberg the data were too meager to be of value 8 in que a conclusions are therefore I i el on 11 perut in perut in 8

Supra enafectomy f: pontaneous gangene of the extremities as fit propo el bo Opp in no par on the theory il at the gangene; lue to appain of the periphe al 1100 is wells be to hyperio alnalarma cause l by 1 sperfuncti not the supraread partial. If were the occurrence of such an in rease in the a lenalin in the blood has never been proue clain the condition has never leen produce experimentally. His pertrophy of the supraread glands is not a monor all short occurrs all glands is not a monor and in the usuality the cortex and not the medialla which is the producer of the the al.

The operation is shown under all and is some times upplemented 1 of the proc layer. In force, and it are mined to the process of the process

Light to fold be patients were between the ages of so and so year. Your -cessition of the punindict at ization of the ulter was obtained in fourt in of the life cases. The peratricits were urefir two years five for one and a halfly are three for one ear two fir is months and one firse-indeend to the is a more recent case.

It seecheded a 'One', a note tecent case is all progres we and that it he besses is all progres we and that it mporary relief may be obtained it numer us procedures. He regards a case's curred only then the cure lasts at least two ears. Herthere, has reported a case in which a recurrence deel chope! Her two years.

Of the nineteen deaths in the cases reviewed infecen were attributable to the operation but some of the patients who ded would not have unvived a simple amputation. To deaths were attributed to sun arenal insufficience.

In Rus 12 where the operation h been per formed most frequently th number i eported cases has fallen from forty for 1st 1923 to one in

1926 From this fact it mu t be concluded that it has been found not clinically justified VITURE L. Mass. V.D.

Coln T Distention f the Renai Pel if Room Renography (De A thi sun des Nontechns foer d'a Roenigeniul) 51T f d deux h G s f Ch Berl 197

The author sho ed a series of roentgeno rams of recal pelves inflated with air and summarized the indications and contra indications for filling the pelvis with solutions and with air

Fillin with umbernal sod um nodice and sodium promule solutions gave the most di Linter pictures of the exerctory unnary pressages. This is to be on solvered when a era security present to not of the systic kidney, and when d Inestion of the la er shift of the viter is necessary. The u e of solut is is to be atto ited in all ca es in which chemical initia is not the mucou membrane may be myin us as in case, of mirick-jet is sof the kidney appointion in the control of t

I ill ng the kidney pelvy with warm asepti at is the simplest and cheapest pr cedure In case of ob struction to the outlier a d for t r of the t nie s of the pelvis into the renal tissue by cathetenia ion of the ureter no to ic chemi al effect will be pro This procedure was used by the author 30 times in the cases of 1 11 tents without product any senous injury or an sequela suggesting embolism By a proper selection of cases a kno vledge of the anatomical and roentgenological facts and de cate and accurate technique it is rendered harmless It is a valuable and in me ca es an indispensab! supplement to other method of examination in urological su gery The posit on of the renal pelvis and the nature of torsion can be een and to eseven small urate stones-are usible on the re gen STETTL'ER (Z) plate

Mathé C P and O ledo G F Sponta cous
Rupture of Hydronephr tic Sac Secondary t
U teral Stone C I for ~ H I M d 19r
zz 790

The author cla m that although traumatic rop ture of the kidney s fairly c mmon spontance 3 reptute of that o gain is m e o less infrequent The latter usuall oc ur in kilness prese tag tumor sh ess i rmati n tube culosis r chrone nephrat

In the ca e repo ted 1 this article a ruptur occurred in a hid ephrotic cs condary to hark pressure caused by a stone. At operatin a curted it ear lumbar ne ion wa made n the right side

the skin was closed without drainage. The catheter was then withdrawn from the external meatus and the sunrapubic catheter replaced by a siphon

After the operation the bladder was impacted daily until spontaneous mentions occurred when the photo and the phot

The prospection of the property of the property of the popular in Case 1 a No 2, 5 sound was passed easily one and a half months after the operation. Drue months later urethroscopy with a No 54 Luv urethroscope re-caled a small area of ordema and some irregularity of the urethra. Two years later the urethroscope va as guin passed and a small sear the urethroscope va as guin passed and a small sear sound was passed easily vous a No 34 sound was passed easily.

In Case 2 a No 54 sound was passed on the forty first day Sutteen months after the operation a urethroscopic examination revealed some blanching and irregularity. There were no complaints

In Case 3 a No 34 sound was passed two months and twent two dats after the operation. Ten months after the operation there were no unnary difficulties. The urethroscope revealed a slight area of paleness near the bulb which ordinarily would have been overlooked. Eighteen months later there were no signs of significure.

In Case 4 the postoperative course was equally good On the thirty suth day the patient was back at work and able to urinate freely and spontane ously. When he was extimined a year later a No 54 sound was passed On urethorscopic examina tion some w dening of the urethra and paleness of the muco a over a distance of cm were seen.

G manult attributes is a results to carreful sature of the dwnd of ends of the urethra with runninal cutts g away of the mucosa. He believes however that the per uncertaint states absolud be windely removed as they have little resistance to bacte sail of the state of extreme urgency and should be done as soon as the diagnosis is made. Wincari, I. Vi so. VI D

Hirsch E W Comparati e Histology of the Ureth al Muco a and Its Relation to Gonococ cal Infection J U 1 9 7 x 575

Hi ch repo t the results of a comparative his tological study made of a number of groups of mam mailian u ethræ n n effort to determine why these st uctures are r istant to artificial inoculation with the gonococcus The findings re as follows

Submucous urethral glands (glands of Littré) are not found in mammals

Urethral glands are well developed in the los er classes of mammals (rats and gunea pigs). In the higher orders of mammals they are either absent or poorly developed. In man they are well developed and have a definite structure

Urethral glands are developed in the e classes of mammals in which the prostate and seminal vesicle are absent apparently therefore they serve a fertilizing function in these classes

The mammalian urethral mucosa generally consistent of squamous epithelium. Transitional epithelium and stratified columnar epithelium are found less frequently. Simple columnar epithelium is found only in the monkey. Since squamous epithe

found only in the monkey Since squamous epithelium in man is resistant to gonococcal infection it might be resoned that mamma malation because the lining of many mammalian orethree consists the lining of many mammalian orethree consists the lining of many mammalian orethree consists of squamou epithelium Th however does not explain the resistance of rats guinea pu, and monkeys whose urethree are lined with columnar epithelium. Attempts by many workers (DeChi timas

Attempts by many workers (DeChri tmas Scholtz Culver Herrold and others) to infect the urethræ of laboratory animals with gonococci have resulted in failure

resulted in issuare

Mammals undoubtedly have a natural immunity
to gonococcus infection of the urethra The gonococ
cus 1 a highly specialized organism which attacks a
highly specialized structure

CLAUDE D HOLMES M D

GENITAL ORGANS

Charteris A A Observations on Prostatic Cancer with Metastases in Bone Gla g M J 19 7 xv 329

Chartens reports in detail the gross and micro scopic findings made at autopsy in a ca e of pro static carcinoma with numerous metastases. This case and two others studied demonstrate that in prostatic carcinoma there is widespread in otherment of the osseous system without the occurrence of visceral metastases.

The embolic and lymphatic extension of carcinoma are discussed. The author believes that in the case reported the lungs became involved through an embolic process and the systemic circulation then became infected by the pissage of single cells through the plumonary capillaises the cancer cells settling down in the bony tissues which attracted them

MISCELLANEOUS

Ma ion Ce tain Basic Principles in the D agnosis and Treatment of U olog cal Cond tions (Q clques g d pn cupe d cte d d gnost et d la thé ape i q e urologq e) I d i the condition of the conditi

Marion states that in the diagnosis of a ti ological condition much more weight should be given to

injection into the second sacral foramen on each side produce slightly less complete anisthesia and that caudi block alone is more likely to fail to produce complete anisthesia than either of the two other methods

Complete sacral an I abdominal block gives satisfactory anasthesia for prostatectomy and in many cases will induce suff cient anasthesia for the radical surgical treatment of tumors or diverticula of the urinary bladder. In some of these cases however balance I anasthes a is advantageous. The type of sacral block for cystoscopy depends upon the quality of the anasthesia to be produced some patients require more and some less. Cystostomy can be performed under abdominal block but usu ally ome sacral anasthesia is required as well The quality of the anasthe is necessary will deter mine whether the injection should be simply caudal or include ome of the f ramina If unto ard drug react: as could be controlled much more anasthesia coul i be induced afely

No particular type of blood pressure seems associate! with any particular ps stoperati e complication. Very low blood pressure is a contra ind cation to spural naristhesia and to the use of very large amounts of procain in regional block. On account of the restri tion to small amounts of the anexistence agent in cases of hypoten ion anixithesia may not all viys be complete when the blood pressure is low.

The pre-operative use of morphine is advisable for patients who are nervous or in pain. The neces sity for morphine in the first twenty four hours after operation is in direct; proportion to the trauma of the operation and the patient's nervousness.

The number and variety of the postoperative compl atoms following local anaesthesia only should emphasize the fact that the patients are poor subjects and that there may not be a choice anaesthesia. Wherever practicable regional anaes the six is desirable for operations on the unmary bladder.

Wade II The Treatment of Malignant Disea e of the Urinary Bladder P ky 5 c M d Lo d 191 x St

The nurbor believes that in the so called care moma age seemally being rowths of the uniary blad let should be treated in the same way as cart mom. The best treatment for a growth localized in the aumant of the bladder in partial cystectomy for cases in which the growth is more extensive hemicrustectomy with existent of a portion of one treatment of the minimatation of a portion of the bladder is suggested. The suggested of the proceedings of the process of the contract of the state of the stat

this the best procedure in the majority of class Of four prinents operated upon by Wade for malignant disease of the bladder two are still alive and two lived to o years after the operation Maynice Mentres VI D De Gironcoli F Regeneration of the Bisdder After Subtotal Resection for Ca cinoma (R. gen 722 e d lla e cica do a portazo e s bt i le per car om) Ar b tal d w of 9

Only right cases of regeneration of the blatic after extrustation have been reported in the liter atture. The authors adds a minb. The patient was workman of 65 years who entered the boogstal in the 59 mytoms of carrinoma of the bladder. He had so a skin uter on the right and of his soos 4 subtotal resection of the bladder was performed, only the trapes being left. Five months liter the uter on the nose was reserted. Microscopic errors that the state of th

I wo month latter he died of gangrene of the lun Autopys showed a newly formed blodfer a small reservoir holding about 30 ccm who had been some formed around the trapone. It is cavity was based with mucuss membrane that was apparently nor showed in the cert taster. It hologonal entants ton showed a normal mucoss and submucous with a thin 15ye of smooth music flexis interpreted here and there by connective its use and focul and all control and the state of the state of the state of the small-cell inflictation.

C im ult L and Che assu V. Fo. Case of Traumatic Ruptur of the Dreithar Teated by Complete Cue V. riffed by Uterla C20. (On the cas of ruptur tan may eds la trades part rist raph t den to poence guérison complète enfide tardi em 14 Luctroscope). Du l'i nime Sex said de 14

This article reports four cases of training timptors of the urchina sharh were a cess fully operated to the state of the state of the state of the attention to the state of the state of the state at the outcome. The end result was determined to urchinosopic examination by Grandiscas. The opration was performed as fourteen three sad case hours respectively after the injury. It also see the urchita shad been completely divided in one case the ends were still united by two thus thereis and in one case about one fourth of the examiference remained infact.

At operation a median suprapube ciness was made to open a median in the bladder and it retropt de cathefernation of the urethra. The picture was then placed in the it thotomy post in turethra cathefernation of the urethra. The picture was then placed in the it thotomy post in turethra cathefernated and an exploration me do toket the najar d ends of the urethra. A mide and though removal of all brusted per retbral tissue was then done but the urethra itself was it mind in this app so ble. That it can do of the rethra we satured with No co-chromic catgut. The cavenary activated and the total categories are stronger and the strength of the categories and the stronger and the stron

As surgical renal tuberculo is of the kidnes is pri manly unilateral and as spontaneous cure is un known the correct treatment is early nephrectorny Sephrectomy is contra indicated (1) when the func tion of the opposite kidney is defective (2) in ad vanced bilateral tuberculosis (3) in slightly bilat eral tuberculosis and (4) then the di case is sec ondary to pulmonary and other gro s tuberculous lesions

If the ureter appears healthy it may be ligated in two places intected with phenol and di ided a few inches below the Lidney Or the ureter and Lidney may be removed at the same time through a lumbar and an inquinal inci ion. The operative mortality is about 2 per cent \ cure results in 60 per cent of the cases In 40 per cent the urmary symptoms per s st. Thirty per cent of the patients die within from three to five years from a recu rence in the other kidney or el ewhere in the body Ten per cent will have either frequency alone o frequency and pyuria

Tuberculosis of the bladder is probably al avs secondary to renal tuberculosis genital tuberculosi or tuberculous salminenti Ulceration and tubercle formation occur with thickening and contraction of the bladder wall great pain and incontinence. The treatment indicated t the removal of the primary focus supplemented by general supportive measures Local treatment; usually of little alue but fulgura tion th ou h a cysto cope relieves the pain of the

ulcers and perhap assists healin

Genital tuberculosi usually occurs between the ages of 20 and 4 years The infection may be pri murily hamic or may be secondary to urinary tuber culo is The p imary focus i generally in the pros tate or semin live icles. In mo e than so per cent of the cases it is in the vesi les. In such cases the ons tas insidious the progess slow and the prog nosis poor. In advanced cases medical and gene al treatment is indicated but a hen the ep didymu and esicles are in olved adical op ration is neces ary DHLM

Stockman R The Act on of U inary Antisent cs. Ed b gh M J o

The time that f eshly passed urine r si ts ammo macal decomposit on has no detinite value san indi cator of the potent of urina y antiseptics. The onset of decomposition depends upon the time at which and the extent to which the unne becomes contaminated ith u ea splitting organisms

Acid so hum phosphate has long been used to acids the un e the ing known that the cocci grow poorly in acid u ne but hen ery is ge doses are ga en a large pa ti excret d in the faces For per fect functioning the body cells mu t be Lept bath d in a f intly alkaline medi m. The k dneys play an imp tant part in keer ing the balance by change g the reakl alkaline in viure f I ho phat alt in the blo d to the acid mixtu e of phosphate n the urine As a rule mo e o le s of the acid s I um phosphate s vereted as such and raises the acidity of the ur ne

Chincally acid sodium phosphate provides an acid salt which neutralizes the excess of alkali and pre vents the depo it of earthy phosphates and the formation of calcult. The urine reaction is tested by litmus It i well to give acid sodium phosphate with hexamine because the latter has no action in alkaline urine

Mineral acids are excreted in the urine as neutral salts and do not increase acidity The common regetable acids such as citric acetic and tartance acid are oxidized in the body and excreted as alka

line carbonates which alkalinize the urine Benzoic acids and benzoates are capable of acidi forng the urine because they are synthesized in the kidnes into hippuric acid which takes up alkah and is excreted as hippurate. The benzoates evert a very slight bactericidal effect but increase the acidity by taking up the alkali. The best salt is ammonium bengoate

Benzoic acid and benzoates act chiefly v hen the urine is sept c and ammoniacal. They render the urine acid inhibit bacterial growth and prevent precipitation of earthy phosphates Benzoates are of little value in bacillus coli typhoid tuberculous or gonorrheal infection or in pyelitis

Salicula and saliculates act like benzoates

taking up alkalies and thus increasing the acidity of the urine but they are never found free in the urine They ha e little restraining influence on bacterial

Salol in the urine bas a negligible antisentic nov er Boric acid is a weak acid and a feeble antisentic but of great clinical value. It exerts its action in both

acid and alkaline urine

The urine may be alkalimized safely and effectively by the use of sodium bicarbonate with citrates When it is acid to gr of boric acid 20 gr of sodium benzoat and to gr of benamine in or of water make the most powerful antiseptic known to the author

Hexamine decomposes with the liberation of formaldehyde only in acid urine and never in a greater proportion than 1 3 000 Pus and mucus fix the formaldehyde and lessen the proportion A 1 000 solution of formaldebyde is very inhibitors to the growth of bacillus col staphylococci and streptococci Hexamine should be go en in doses of 10 to 15 gr three or four times a day and the urine kept acid It is of limited value in pyclitis It sometimes causes irritation of the bladder but this is readily relieved by sod um bicarbonate

Hexylresorcinol s highly bactericidal in viro is detoxicated by conjugation and ren dered mert except for a small quantity which escapes Sodium bicarbo ate deprives it of its bactericidal powers by changing the surface tension However it educes the organisms and relie es the symptoms promptl though it fa is to eradicate the infection

Methylene blue reduces the organi ms pus and symptoms markedly but does not overcome the injection Acriflavine inhibits bacterial g owth and is more acti e in an alkal ne than an acid medium

physical signs such as pyuria or hamaturia than to functional symptoms such as pain polyuria etc When the catheter is arrested in the region of the

bulb (there it mas be felt in the perineum) a large sound rather than a smaller bougie or catheler hould be tred

Hematuria in the presence of hypertrophy of the tre tate hould not be attributed to the pros tati con bitto i until all other causes have leen

rule lout ly tho ugh examination In ch on c retention lue to prostatic har ertro phi cyst istomy and explication are in licated

boughe may be passed to the bulbar region if it pa 45 stricture it rul d'out of spontane u vstitis all ca es of

VII ca

titis resistin the classical treatment for the ondition and Il cases of recurrent evititis hould le kuked upon as possible en es of inherculous infection

All ex titis ex ept that due to g northern is an infication freest cop e pecially if it resists treatment thought to be ufficient

Greteral catheterization shull always be tre ce le l by a complete examination of the blad fer

In all cres f hematuria an imme hate exam mation of the urmary tract should be made In every ca e of renal pyuna which has not been

shown to be suberculous an \ray examination sh utile made In I ray examination f r renal stone known or

a ispected should in lude all of the urinary tract Vaccin are often used to hite the ignorice of the phy man who is unable t establish the

AR SIS MICH PL I MAS Nitch G A R U ogenital Tube culosis B 1 1/ J 10 1 503

Urogenital tallercul is was formerl regarded a a honel as h case but within recent years exhaus ti e re arch e reful pecial examinations earls harn a and active surged treatment have com bine i to gi e persons with thi condition a good to pe t of complete reco ery

l'ubercle bieill rei hithe li inev from a me otter f c sin the bols que cent or active Renal tuber culosis may be ithe surgical or melical "urgical or chronic renal tuberculo is is usually undateral but may early bec me bilateral. The urine contains tule le b cill pus cells ca us mater al frag ments of renal to ue and a small t a I albumin of processe origin. The medi I form of renal tuber culo is i biliteral Th renti parer chyma is studde ! with mil ry tubercle. The urine which is lear few breifs many hyalin and gra ula a ts I la la guam unt of all umin Th inf ction oduces a typical chr nic neth itis and ften en is

in uramı Ful rule bacill reach the kilner by nay of the s or the lymg hatic the form er is th mo e comn nr ute Infection from ne L dnes to the other m y or ur by th fissa e of the bacill through the is my hatic Asce ding infection of the

he fney occurs by way of the per ureteral lymphatics or a damaged ureteral mucosa Three types of the disease are recognized-primary clo ed parenchyma tous tuberculous neghrits primary open tuber culous pyclonephritis and a combination of thes two conditions

In primary clo ed tuberculous parenchimatous nephritis there are encapsulated foci in the paren chima which go on to careation ab cess f emation an I ultimate destruction of the entire Lidney This change is accompanie I by interstitual inflammation of the pelvis and calvees which ends in the format a of f br fatty tissue. The urine of the infected bid net is soon increased in amount its specific gray t islamere i and it sho sa trace of a lumin nda e rus cells. It is sterile an i seldom contains tubircie b cills The function of the infected Lidney is d fective as compared with that of the other hid es (omplaint is made of a mild c) stitis and the sis often treated locally

I rimary open tul erculous avelonem itis i char acturized by ulceration of the entire kidney. The changes prend down the prete the u eteral walls become thicke sed and the mucosa ulcerated The s mptoms include painful frequency pyuna an often hamaturia. The effips may resemble tooth

paste coming from a collap ibl tube The condition v hich is a combination of primary

closed garenchematous tuberculous nephritis and primary open tuberculous pyelonephriti has chin

c I features similar to those of the latter The clinical signs of thronic renal tuberculosis seldom indicate the extent of the lesion. There is usually no enlargement of the kidney but enlarge ment and thickening I the ureter are re exted o himmoul palpation (rectal in the male and agin ! in the female) Cystoscot ic examination may sho the bladder to be inflamed or ulc rated rihe ting r alone to be involve! The ureseral orince ma pre ent the orly eysdence of the disease it may be con gested a emator or surrounded by bullir or m t

have tubered s on its margin I along standing cases it may be ide open rigid and ulcer ted The symptoms are essentially those of cost ts They usually be in graduall and increase steads but sometimes are udden in thei on et There may Le rem jons of symptoms f r months or years during wh ch time the patient appears to be imp

ing The ki 'nev is seldom painf I but the passage I d bris il wa the ur ter may cau e urete al cob The frequen 3 is due at t est to a trigonitis and later t a cystit's Noct is is the m t onstant and important sign of the d case. The only postive a of the c n liti n is the presenc f tube cle bacilli

in th unne Bladder irritation a cturn ! frequen 5 a d pyutia n th case of a p son bet e

, are of age are strongly's greatere i reral t ber ulosis The posit e d'agnosis is m de by tuing the tub rel bac lh : the ne li these b c lh re not found guin a jig in culati n mofte male h diann sis certain

SURGERY OF THE BONES. JOINTS. MUSCLES. TENDONS

CONDITIONS OF THE BONES ICINTS MUSCLES TENDONS ETC

Tumors of Tendon Sheaths Ann Janik A S r 1027 laxay 807

Tanik reports five cases of tendon sheath tumors Tuo of the immors were chondromata one was a fibrochondromy to-o teosarcoma one a hæmangio

fibroma and one a fibrosarcomatodes Both of the chondromata were the size of a hen s egg One had its origin in the sheath of the flexor pollicis longus tendon and had been present for a year The other arose from the flexor tendon sheath

of the right second toe and was of three years duration

The fibrochondromy to osteosarcoma y high meas ured 18 by 12 by 11 cm had grown from the sheath of the flexor carni radialis and become attached to the tendon. It developed following an injury sus tained fifteen years previously

The hæmangiofibroma grew from the tendon sheath of the flexor digitorum sublims and was of five years duration. It was definitely a neoplasm

and not an organized hamatoma The fibrosarcomatodes developed from the flexor

tendon sheath of the left index finger and was the size of a walnut

The author suggest the following classification of tendon and tendon sheath tumors

A Neoplasms

t Neoplasms of tendons (a) ben gu-fibroma osteoma chondroma (b) malignantsarcoma

2 Yeonlasms of tendon sheaths (a) benignfibroma I poma chondroma angioma (b) malignant-sarcoma (c) mixed B Inflammatory and other tumors tendovage

nitis tuberculosa granuloma (the former myeloma) ganglion etc

MI CRAELL MI SON MID

Mumford E B The Origin of Rice Bodies in Bursal Sacs J B ne & J IS & 1927 ut 38

The author reports three cases of rice bodies occurring in chronic bursitis to show the different conditions in which these bodies may be found and to present a theory as to their o igin in tuberculous lesions

Foreign bod es ha e been f equently found in synovial ca ities. When they have been numerous and lying free in the fluid they have been termed nce bodies In the bursal sacs they may be found when a chronic bursitis with its excessive and has been caused by low grade py ogenic infection by trauma or by tuberculosis. In all instances howe er their formation is dependent upon the

presence of some small nucleus upon which may be deposited fibrin from the bursal fluid

The physical character of the rice body depend upon the time that has been consumed in its forma tion the origin of the nucleus and the character of the fluid in which it is found. The nucleus may have its origin in the bursal fluid or in the bursal wall Nuclei which begin in the fluid are small masses of fibrin which grow by the further derosit of fibrin They are found as a rule in a fluid containing blood and when seen early are small soft flat reddish masses with a dull luster. In cases of lon er standing they may become firmer and assume an oval or round shape They do not attain a high poli h On microscopic study this type of rice body will show only fibrin with but little lamination, but may have enmeshed broken down blood cell

Sucles originating in a sac wall which has become thickened by a chronic inflammatory process due to progenic infection or trauma consist of small tags of fibrin which may have acquired from the under lying wall tissue those cellular elements which later will lead to the organization of fibrin. After a tag of thickened walt has been et free the new fibrin which is deposited from the fluid may thus become organized giving rise to a rice body of firm consist

ency which may retain its round form

Attention is directed especially to the origin and formation of rice bodies in tuberculous lesions. The nucleus in this type has been attributed to the liberation of proliferative tags of the thickened sac wall Study of the sac wall gives also another con cention of the origin of the nucleus. The sac wall consists of a tissue typical of the reaction of the tubercle baculus consisting of irregular bands of fibrous tissue holding numerous giant cells. The giant cells in the deeper portion of the sac wall have numerous nuclei which are arranged in a concentric manner with a signet ring formation. As the e giant cells approach the f ee or inner wall of the sac the nuclei become fewer and lose their typical forma tion At the very edge of the wall several giant cells are found which do not contain any nuclei but con sist of only a mas of fibrous tissue Mumford believes that these giant cells are pushed from the lower strata of the sac wall losing their nuclei as they approach the free surface to be liberate ! later and form the nucleus of a rice body

The life history of the full grown rice body is that of the rice body found in oth r types of chronic bursitis Fibrus from the clear or straw-col red fluid is deposited in lavers upon the giant-cell nucleus giving the laminated structure een on microscopic Through constant rubbing against each other the rice bodies become round or oval according to the shape of the grant-cell nucleus and may develop Copail a in oil and resin and sandal oil do not inhibit bacterial growth in the test tube but in the body they seem to have a peculiar selective action on the gonococcus

Briant I Roller M D

Leonard \ and Feirer \ A: The B ctericidal Acti ity of lites/iresorcinol in Giycetine With Special Referen e to the influence of Surface Tension in Chemical Disinfection \(F \) \(H \) \(Jak \); \(H \) \

Chemical disinfection is a chemical reaction be tween the cell protoplasm and the disinfecting agent. The rapidity of such disinfection is induced by concentration temperature pressure and time the germen te must penetral ratio mustic rerivers and interstices and then into the cell membrane Fluids of low surface tension do this most efficiently

Hex-livesorticol is therspeutic doses markedly reduces the surface tension of the rune and imparts to the urne and imparts to the urne settive bacterizedal propertie. If the drug, is a luminatered with quantities of water or with directles such as sodium bearbonate citates etc. The surface was a surface of the surface tension as due to the resulting duriess. In the bacterized properties. This is not the surface tension as due to the resulting duriess but duriess is presented in the we of hexplesoration its effect will be disappointing. The success of the hydrocardiol of issufficient, the unitary text depends upon surface tension since by the lowering excellent of the surface tension and the disson are accelerated.

Herylesoremol is the most powerful phenolic germicide jet d covered and is relatively non toxic the best solvent is a 30 per cent solution of glycer

he and water

The addition of water to glycerine raises the surface tension but if hexylresorcinol is present in the
glycerine the addition of water reduces the surface
tension and increases the bactericidal action of the

solution. It was found that to per cent of nat can the t or to consider of the troops and the troops and the troops and the troops and the troops are the centimeter and enabled the germinder centimeter and enabled the germinder beautiful typhosus in fifteen second. In the training the training training the training training training to the training and the training trai

Aqueous solutions of hexplresorarol su er no deterioration of bactericidal activity even after

many months at room temperature

The best solution for tissue surface disinfection consists of 30 per cent glycerine and 0 per cent

water in which is dissolved a mgm of besylvesore not per cubic centimeter

BE JAMI F ROLLER M.D.

Horder Sir T The Medical Aspects of Hama

turia Proc Roy S e Med Loui 1927 XE, 1390. Of the cases upon which this report is based twenty were cases of acute nephritis. In this condition there is some toxic factor due to infe tion of the tonsils by the coccal group of bacters or infec tion by the bacillus coli In seven of the cases there was chrome nephritis. In four cases the hamat na was associated with infective endocarditis. In this con lition there is usually no pun the bleed ag b prolonged and a septic embolus is found in the kid ney In four cases there were renal calcula which produced no symptoms. In three cases there was infection of the unwary tract. In two cases the hamaturia was associat if with mitral stenos s with an Infarct in the kidney In two cases it was associated with purpura due to the same tone a eat In five cases the d agnosis of essential harmatuna was made. In one case the hematura followed the administration of utotropin and in another was associated with polycythemia.

MAURICE MELTIER MD

uterine life. It was once confused with rickets, but has been recognized as a separate entity ince 1860 It birth the typical achondronla tic has a body

of normal size exceedingly short limbs and a large head with a very characteristic depression at the root of the nose The hmbs are curve I because of angular is placement of the segments of the knee joint and the head of the fibula is on a level vith the head of the tibia. The proximal segment of the extremities is proportionately shorter than the di tal egment. The fingers are of equal length and diverce

The head is roun led and there i an increa e in its transverse liameter. The entire nasal region may be flattened and the upper jay pushed forward At parent lordosis is commonly present and may be combined with kyph sis. It is probably due to di placement of the f mora posteriorly on the generalls contracted and deformed pelvis rather than to actual pinal curvature

Intelli ence may be normal or reduced Sexual hyelopment an I muscle po er are usually good The condition sho is a hereditary tendency but i

frequently spora lic

The lon bones sho large rounded epiphyses c nnected by very short an I thick diaphyses. There may be bends and angles near the epiphy es. The ports as of the skull v hich are developed in cartilage are abnorm its small and there are compensators alterations in the shape of the brain. The ribs may be short and shall furrous or bending at the osteo

chondral suncture In tol rically the condition a characterized by greatly dimini hed proble ration of cartilage cells At the epoph ses os if cation i r gr es through an intermediate stage of calcut cation of cartila e or by metaplasia of f brous ti sue which ha are en from cartilage or the perio teum. The formati it of bone from pen teum takes place in the normal av and

15 u usually active

The c nditi n begins in the uteru not earlier than the secon I month of gestation and probably persi ts as long as growth continues Ja ad ances th theory that the changes a e brought bout b nerea e in the amniotic pre ur la hingt i ch mia in the mbro Itabel den tg n rally how ever that an abnormalit of internal se reti n is an ctiol great fa to

The articl cont in se e I illu trations

WIBITID

Brkhrdt Attempt to Inflence the Regeneration of Bene by Chemical Menn (Vrs. hele Bee fl. ngd. Knoch eg. tx. Ttdd dr Ac fck. Bl. t. g.

The with retain 1 th ri in a number of ribt a ith n stuled th effet po ten fith bin is in ubstance april it the a imals the n thigh t resection wall e or in allitin solum hinite selutin or tin fosterih tes w injected. The periment

a are based on the theory that regeneration may be induced or controlled by regeneration hormones hypothetical degeneration products of the ti sues. The original substance used was the bone of animals of the same kind animal were kille I the a as app jed sometimes in its

natural form and sometimes in the form of an

The experimental animal showed a certain in crease in callus f rmation as compared with the controls but the increase vas not sufficient to The interpretation of the findings exclude error vas difficult because in spite of the great care taken to make the resection exactly the same in every instance the course of regeneration sho ed con si lerable var ation. On the other hand, the injection of an ani otonic s lution vas followed by a di tinct reaction in the sense of increa ed callu formation. This occurred with the use of a hyper tonic sodium chloride solution but not with the use of distille i ater

In the discus ion of this paper SCHUBERT reported upon some experimental studies on growth. With Babl he carried out experiments with regard to the effect of pressure on the longitudinal gro th of young bones. It as found that the differences in length noted in the various parts of the extremities could not be explained by the influence of pressure They depended upon er iphyseal stimulation from the site of injury (amputation resection) which incited the epiphy enl zones to increa e l or dimin t he I activity according to their intensity and the distance of the site of injury from the principal zone of growth ST TTINER (Z)

Fal bank II A T S me General Disease of the Skeleton B 1 J S c 027

The normal levelopment of bone requires a proper cartilaginous or membranou caffold the deposit of inorganic salts and a sufficient number of bone formi g cell

O teogenesis imperfecta is of four types. One t pe is characterized by multiple fractures abun iant calles and hort thick bones. In another the bones are slen fer and poorly calcufe I and the cortex is abnormall thin A third type is characterized by hone combed bones and a fourth by hich are dense and show obliteration of the bones medullars canal

Do chondroptasia is characterized by d arfing of the affected limbs and irregular is if cation at the f the diaphyses of the lon bones In some

ca es there a mottling of the epiphyses

Achondroplasia has been attributed to temporary abn rmal amn ot e pressure in early fetar life but the theory has not been prove! The ossife nucleus appears cose to the en of the shift of the bone I the end of the shaft is usually funnel haped

The ei phi e are of normal use In cram oil if I sostosis there may be in addition to the usual abnormalities failure of os if ca tion of the pub s and carpal bones the presence of facets or lepressions upon their highly polished surfaces The continuous liberation of grant cells from the sac wall accounts for the large number of rice bodies found a number limited only by the size of the sac According to this theory the rice body originates not as a punche ! off tag of proliferated sac wall or f brinous leposit but as a grant cell extruded from the deeper layers of the sac wall

Y RHIL C BULLOCK MD

Stellwagen T C and McCal ev J F Gonerthonl Arti Itis in the Ad it Male Correlation of (linkal and U ological Finding Treatment by Injection of the Seminal Ve icles J L d

Stell agen and McCahey di cuss the treatment of con trhusl arthritis by the injection of I regls solution into the eminal vesi les through the rectal mucosa an I report fourteen cases which were treate I attsfactorily in this manner luring the past tuo years at the Jefferson Hospital I hiladelphia

After a copious enems and rectal cashing the patient is placed in the lance chest position and a necial nee il ftte l to a syrin e l'y rubber tubine is inserted into the vesicle under the guidance of the fing r Care is taken not to plunge the needle too ot more than 3 c cm of 1 regels solution

is then injected into each vesicle

The treatment is indicate? preticularly in the acute or a bacute types of gonorrhoad arthress. It is given as oon a the diagn is of the focus in the vesicles is estal li hed. After the injections are dis continue lit i nece sary to resort to ma sage to n i the ses cles of Jubra and to favor their return to normal In cas " of chronic g north al arthritis the ini-ctions are no more effective than massage but my be fail in relieving the symptoms

The authors report several untoward results in their fourteen cases. In one case the injections were followed by a rie in the temperature in the by involvement of pr visuals apparently normal to ats

and in two ly epilely mitte

PALL C CO ON 1 MD

A Secon! R po t on a Hith rto Elkenbary (F Und scrib d Dystroply 1 robably of Luetic O igin Affecting Particula ly the Joints of the Lower Estremits 1 B . 1 15 6 97 15

The first report on the distrophy discussed in the article t as mad in tor4 The article is a bief sketch of the chinges that have taken place since the lest report the import at points brough out in the original report ver the foll ting

The di case a familial affectin three of a fam ly of se en chil iren

The father an I mother were living and well and the hi tory if the gran inarents as negati e B th the blood and the spinal fluid Hassermann

ich droplasia s the con eq e ce of a defect e te ts of the parents and the children were negati e The reflectes of all of the children we e normal and eguıl

There were no areas of anasthesia parasthesia or dis ociation of pain and temperature sense In every case the mouth and tongue presented a roughened lissured scarred appearance but the teeth s ere negative

In all three cases the touble in the knees dated back to that was appa ently an acute arthres following an injury

I ain was a marked initial symptom in two cases but not so marked in the third.

Pain 125 not present to any extent in any o e of the three patients at the time of examination in 1914

an I was not present in 1919

While the predominating findings were made in the knee other structures besides the knee were tovolved GD aged 6 years had bowing and some irregular areas of atrophy in both tibue 4 D aged 16 ears had an old healed pathol grai fracture of one fibula R D had enormous thake ing of the lo er portion of one tibe atrophy of the lo ser portion of one fbula and changes in the os talcis an i astragalus

The author submitted his original paper and all toentgenograms taken ince 1014 to Baetjer of Baltimore and received the f llo ing reply The condition is unquestio ably a neuropathic

lesion I have never seen a case of Charcot join in congenital lues but not rithstanding this a d a similar report from Johns Hopkins e en if the Wassermann continues to be negative I would still be force I to characterize them as Charcot joints.

Of three Wassermann tests made in 1927 f @ were positive 11) the patient who i by far the most afflicted has a negati e reaction

In conclus on the author says that he still regard the changes in these cases as due to congenital lucs In the case of AD aged 29 years the appear ace of the kn es is quite character stic of the Charcot junt a condition that is not supposed to occur in congenital lives The knees of R D sged 31 years are allo strongly sug estive of Charcot jo at and certainly of a dystr phy of some kind 6 D 19 years of age has a posti e Wassermann it action but has imp oved with ut tre time t and at prese t complans of no disability alth ugh the 11 ht knee sho s some variation from the normal

The da no i of a b thert unkn n dystrophy probably due to lues s ba ed on (1) the ea ly his tory of the three children (2) the appearance of the tongue and 1 (3) the pathological report (all w ing biopsy on 1 D s knee (4) the Il assermann tests made n 1927 () the roc tge gram (6) the exclusion of tabes and syr ngom; la and (7) failue to find in the literature the des ription of any s mular cond ton occu ing n congenit ! ! e

YORNE C BULLER ! D

Knag a R L Act and oplasia B 1 J S 1) 7

e oluts n of the proc ss of e hondr l o beatson which is in evidence at a very early period of int a the fagers of the right hand were apparent. The muscles of the right upper arm were somewhat weaker than those of the left upper arm. Along the ulnar border of the right forearm sensation was defective for wool and pa prick. Youvement of the neck was restricted in all direction. On the right side of the neck, there was a noticeable protuberance which felt

hard and bon)

Roentgenorams shot ed massive enlargement of the lower cervical spine. In the anteroposterior view there were two lateral curves the upper one of which has concave to the right and the lower one concave to the left. The lateral view showed an in treased for and bending about the middle of the curvical spine. Some of the intervertebral disks had apparently disappared. The bodies lamines and spine of the control of the contr

H EARLE CONNELL MID

Rugh J T Complications of Surgical Tubercu I sis Especially of the Spinal Type 4th 1c Jl J to 7 xx 568

Rn b reviews the treatment of surgical tubercu loss in which complications have developed after loss in which complications have developed after treatment in general practice and in institutions for periods ranging from one to twole years. He be leves that in cases of cold abscess interference is indicated only, when the abscess is increasing rapidly in size when it is pointing and threatming to break and when it is interfering with the general health. The only treatment of such abscesses is aspiration. They should not be increded drained or washed out

The material in tuberculous abscesses is infected only by the tubercle bacillus. These bacillus residom found in the pus but when thepus is in jected into guinea pigs it produces typical tubercu losis and no other infection. In cases of open

sinus however mixed infection cannot be prevented.
All that is necessary in the treatment of a cold abscess is relief of the tension to prevent rupture. As soon as a tuberculous abscess is opened and drain age is begun mixed infection is almost certain to occur.

Unde p oper treatment with rest absolute fixation nourishing food e posure to the sunlight and the administration of fats surgical tuberculosis i one of the most curable of conditions

When treatment with rest and absolute fration is given p ralysis de cloping in pinal cases practically always disappears after the first attack for ctional as well as physiological rest of the parts as ential Come orthopedists claim that weights sential Come orthopedists claim that weights bearing may be allowed because the we ght is they no no other parts but Rugh states that he has seen many cases in which weight bearing afte fination was followed by abscess formation and the breaking was followed by abscess formation by bone graft or

osteoplastic operation is of great value in these cases if Earle Conwell M D

Albee F II Spondylolisthesis Bone & Jo & Surg

Albee reviews the literature on sponds lobathesis and discusses the pathology etiology types and dispnoses of the condution. He states that it is not as uncommon as was formerly behieved and occurs in males as often as in females. Trauma is the primary, cause but there may be predisposing consenital factors. The only satisfactory treatment of the only satisfactory treatment of a bone unlay graft. In the eight cases in which the author used this method good results were obtained.

Putti \ New Conceptions n the Pathogenesis of Sciatic Pain L cet 9 7 ccx 53

Sciatica has been recognized as a clinical entity only since it was described by Columin toward the end of the eighteenth century. It was long known as Columb side ase. Charcot was one of the first to draw attention to its frequent association with vertebral deformity and Brissot first coined the term sciatic scoliosis to describe the lateral curvature due to sciatica.

Putit emphasuzes the fact that from the clinical standpoint scratica is to be considered merely a symptom. The terms essential sciatica and idiopathic sciatica, he characterizes as meaningless For the pain due to irritation of the nerve in the canal or foramen through which it passes he uses the term nervolucitis.

In the causation of scattica not only anomalies of the lumbar vertebre such as lack of fusion of the spinous processes and an increased lumbosacral angle but also anomalies of the inter-retebral foramina and atticular facets play a part. The about a such as the sum of the su

The chief chiical manifestations of sciatica are pain and rigidity of the lumbar spine. The other signs and symptoms are important but cannot be regarded as pathognomonic

For sciatica due to spinal arthritis Putti recommends acti e hyperamia and immobilization. He reports that his results with this treatment are good in the majority of cases.

In conclusion he states that scratic pain is symptomatic of vertebral arthritis except in those rare cases in which it is a symptom of a neuritis of specific nature. Scratica is a neuraliza caused by patholog real conditions of the intervertebral foramina and

482 INTERNATIONAL ABSTRACT OF SURGERY

eriphyses at both ends of several metacarpals and phalanges and coxa yara

The retardation of growth in professional dwarfs

is known as ateleiosis Myositis ossificans idiopathica is a congenital affection in which the proximal phalanges of the big

toes or the thumbs may be suppressed and abnormal masses of bone may appear The deformities of gigantism acromegaly osteo malacia and mixed types of dwarfism and infantil ism may be attributed to endocrine disturbances

The cause of fibrocystic disease leontiasis osteitis deformans and arachnodactylia is unknown The article is supplemented by roentgenograms

of many of the deformities described W P BLOTTE M D

Stoloff E G Bone Cavities-A Roentgenological Study Am J Ro ign 1 19 7 xt 1, 26

According to their etiology bone cavities may be divided into two main groups (1) hamorrhagic represented by expansive hamorrhagic bone cysts and (2) infectious represented chiefly by osteomye htis and tuberculosis

The strict anatomical and pathological definition of bone cust does not meet chinical requirements and there is no uniformity of opinion regarding the etiology of cystic disease. The author reviews the literature on the pathogenesis etiology and nature of bone cysts He accepts the classification of Pommer and Looser because it is based upon physiology as

well as nathology With regard to solitary cysts and the osteitis fibrosa of Recklinghausen there is considerable difference of opinion Stoloff accepts the theory of Pommer and Looser that the osteitis fibrosa of Recklinghausen is not a disease entity but a syn drome expressive of trauma and perhaps of an in feriority of the vascular system. In normal bone this syndrome is localized (a solitary cyst) and in diseased bone (osteomalacia osteoporosis osteitis deformans Paget) it is generalized. The author refers to it as expansi e himorrhagic cysts (brown

In the solitary or localized form the roentgeno logical appearance suggests a soap bubble multiple or generalized form has a honeycomb or sponge like appearance The cortex may be ex panded to a spindle or ball form and is uniformly thinned In the sol tary form the epiphys's and periosteum are not invol ed but in the multiple form these may be invaded. In the juvenile skeleton both usually occur in the diaphyseal end of the long bones

Tuberculous cavities a e characterized by smooth borders lack of shadow creating contents and invasion of the epiphysis Syphilis is characterized by ossifying periosteitis and osteomyelitis by a dense zone of ossification around the cavity Central tumors usually show a definite sclerosis of the ma gunal zone and an arching of the bone surface with the formation of septa

Cystic disease of bone comes under observation as a result of trauma In youth it is the most com mon cause of pathological fractures. It becomes painful only when fracture or laceration of the periosteum occurs. In the multiple form symptoms of the underlying disease (malacia porosis) are als noted CHARLES H HE 4COCK, M D

Cone S M Bone in Hodgkin a Disease J B & 15 g 927 1 458

The evidences of Hodgkin's disease in the honer as in the spleen liver and other organs are moon stant The principal change is a progress ve tissue formation This is usually fibrous but in one of the cases studied by the author new bone was formed Coagulation necrosis simple cedema and the pres ence of polymorphonuclear leucocytes indicate a more intense poisoning Greater involvement of the reticulo endothelial system and the presence of Dorothy Reed grant cells are specifically character istic of Hodgkin's disease Eosmophile cells are present in large numbers

ELVEY J BERRUEISER MD

Schuere Waldh im F Acute Rapidly F tal Osteomyelitis (U be kut rasch m Todfu h r nde Osteomyelitis) A ch f kl Chr 9 7 m 60

Ostcomyelitis is to be regarded as a secondary disease The portals of entry are furuncles pananta or the mucosa of the gastro intestinal tract The e are various forms of the condition the ordinary purulent type the sclerotic non purulent type no purulent osteitis albuminosa and the hamorrhand septic type which runs a rapidly fatal course. The author reports ix cases of the last type i children between 2 and 14 years of age in which the condition was complicated by toxic exanthemata purulent arthritis thrombosis of large vessels and nume our pulmonary metastases All of the patients died within seventy two hours

Early diagnosis and early operation are the only bie sa ing measures known The operation must be performed with minimal concussion of the bone

RIESS (Z)

Hendry A W and Fowler A Hype trophic Osteo Arthrit's of the Cervical Spine Land 9 7 CCXI I SI

The author reports the case of a man 21 years of age who sought treatment in the out-chine of the Aberdeen Royal Infirmary for weakness of the right hand which he had noted for five years Two years ago he first realized that the right hand was smaller than the left At no time had there been pain in the hand At the age of 5 years the patient had had measies complicated by outs media and the latter cond tion had become chr nic

At e amination all of the joints of the upper extremities moved freely but definite weakness a d wasti g of the intrusic muscles of the right hand and of the flexors and extensors of the right wrist a d certain number Indirect force may produce them by compres one traction arrachement. In landing on the fact in a fall the wayle of the body is transmitted from the condy less of the femur to the upper end of the tubus and the latter having less retaince is fractured. The internal tuberosity is usually the one fractured as it is nearer the axis of a continuous control of the contr

The direction of the line of fracture: determined in general by the disposition of the trabecular compount the spongy bone. When the entire tuberosity is detached the line of fracture unaily begin are the third spine an I runs downward and outward or insured to the level of the upper tuboffsular articulation. I artial fractures also occur. These const. simply of a five vettending from the joint surface and d appearing in the diaphysis. Associated fractures of the fully are relative to.

The displacement of the fragments always occurs downard and outward in relation to the axis of the bone. Because of the fibrous investment of the epiphysis the displacement it usually not great lostenor subluxation occurs frequently and is associated with fracture of the internal tuberosity.

The symptoms include an earl a doften very extensive hamarthrosis and marked infiltration of the soft parts. The exchymosis is mot marked in the populical region. When an exchymosis here is as ociated with hymarthrosis a fracture should always be su pected. The leg is usually in an arti-

tude of semiflexion. More important but less frequent is the varum or valgum deformity. A constant sign is widening of the upper end of the tibia.

The prognosis 1 always grave If complete reco ery of function of the joint occurs this result is obtained only after from eighteen months to two years

The trustment of these fractures: either orthopedic or surgical Orthopodic treatment con just in early and if necessary repeated evacuation of the barnarhrosis reduction of the fracture immobilization in a posterior splint for a month and massage even during the period of immobilization. The puncture of the joint should be made with a kinfe in order to assure the evacuation of all closs.

Surpical treatment consi ts in reduction of the fracture by an appropriate arthrotomy and fixation of the fragments by nails screws or bands. The extremit, should be immobilized for only a short time and massage and movement should be begun early.

In the authors opinion orthopedia treatment is the treatment of choice. Open reduction often gives more brilliant immediate results but not uncommonly included by later accidents. In about a found of the cases so treated the material used for the cases so treated the material used for the cases of the cases of the case of the cases of the ca

AL ERT F DE CROAT MID

articulations For the terms rheumatic sciatics and idiopath c sciatica the more accurate terms arthritica sciatica or vertebral sciatica should be substituted LLC Croovs WD

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Hen y A k An Operation for Slinging a Dropped Shoulde B i J S g 97 x 9

Henry, reports a case of postoperati e paralysis of the left sterio leidomastic and artizacius muscles in which the boulder drops was relived by sling as the vertebral border of the exceptal to the spines of the rith cervical and third floracic vertebre by the cervical and third floracic vertebre to the rith cervical and third floracic vertebra do not be a simple of the rith cervical and the state of the arm in full addiction for four sixth atthough the said of the said of the state of the said of the seratus satterns VI D. W. P. BLOWN VI D.

Mayer L Transplantation of the Trapez us for Paralysis of the Abductors of the Arm J B & J nt S & 19 7 1 412

Many attempts have been made to correct parlays of the sho like! Itilderbrant shifted he cils roular portion of the pectorals major over to the acromous by twaten the mu des othat it deep surface became superficial Lange attempted to replace the deltoid by threading the trapezus with numerous strand of sils and attaching them to the trapezus to the prairly sed deltoid. Spetty combined the trapezus to the prairly sed deltoid. Spetty combined the trapezus to the prairly sed deltoid. Spetty combined the trapezus to the prairly sed deltoid. Spetty combined the prairly sed to the spetty of the sed of the prairly sed to the spetty attempted various types of nerve implantation for regeneration of the paralyzed crequitles nerve

Mean to these numerous attempts only one operation for paralysis of the abductors has been accepted as a standard p ocedure—arthrodeus obtained in the shoulder. This operation he ever gives only one half the normal range of motion at the shoulder and a result which is 16 from earther. The procedure described by 10 years in this art de consists in the contract of t

beeps must be active

The bony attachm at of the trapez s is outli ed
by the skin incision the skin di sected up and the
muscle cut free from its inse bon A sec and meris a
no long to then made in the region of the in ertion

in long to then made in the region of the circum of the deleted are the for exposure of the bone. As bone the circum and the other shore, the circum and the state of the circum and the state of the circum and the circum and the circum and the circum and to facil tate the anchoring of the artifical tendon portion of the accommon just posterior to the accommon and the solution and the shoulder of a forcept between the accommon and the shoulder.

joint do nuard beneath the fibers of the 'el od and out at its insertion. A second pair of fo cream left in place to be used later in pulling down the fascral tenden.

In assistant prepares from the last a last a graft on hospital prepares from the last a last a graft on long and just make with one end stapering. The inner surface of the factors completed to make the inner surface of the factors maybeed to make the inner surface of the factors and the trapents maked. The surface is the surface of the trapents maked the surface of the surface o

At the end of three neeks the arm is taken out f the cast and exertases are begun. During the exercises the arm mu t not be brought loner than on the rees. After six weeks very gende manipulation are begun to improve the rage of

motion. To date are cases have been operated upon in the manner of scribed. In one the procedure was a temperature of the procedure of the probably because the child was removed from the hospital too so on and the after treatment sup operfy carried out. In the four other cases how e er the results were graftly and procedure or the procedure of the procedure of

The operat on described gives a more complete ran e of abduction a d a better asthetic result than arthrodesis but has the disadvantage of requiring at

least three months of postoperative exercise
No was C Bellock M D

FRACTURES AND DISLOCATIONS

Joi ns n R W Jr A Study of the Healt & Proc esses in Injuries to the Carpal Scaphold J B et Jo i S g 927 12 482

In fractures of the carpal scapboud it of framents that sufficient blood supply. There is no period, it cardials the cardialsmous artace head by himse tissue formation. The medullary response is most act in the long, he than in the cancelloads fred the supposed. No esserte of a lyue off it of the coint fluid on home, pair is appare!

Breblian N Fracture of th Tibial Tuberosities
(F tre d pi tea tub i) J d hr 19 b

Articular fractures of the upper end of the tiba are relatively infrequent. They occur most commoul after the fortisth year of age, when there ist ance of the bones beguns to decre se

x 663

These f actures may be produced by direct or in di ect force Direct tr umatism such as the lick of a h rse and crushing under a vehicle account for a arterios enous aneurisms the absence of clots tends

to eliminate this accident

to eliminate this accident
Two methods of treatment presented themselves
to Picard (1) quadruple ligation of the vessels with
extirpation of the sac and (2) restoration of con

The author emphasizes that while this is the ideal operation the danger of secondary homorrhage with consequent loss of life is more to be feared than

the gangrene which follows quadruple ligation A most important element in the operation is complete harmostasis in the operative field. The author suggests the use of an Esmarch bandage from the peripher; to the accursing and the application

of a tournquet just proximal to the ancuir m In 1856 Broca classified ancurisms according to their external morphology. Youre suggests a new classification based upon their pathological structure as seen following their opening at the time of opera tion. Four types are distinguished each suggesting a different procedure in the renair 1 A small communicating channel between the artery and vein caused by a small object. In such cases simple ligation of the fistula will restore the continuity of the vein and artery.

2 A small opening in the artery and a large tear in the vein which produce a sac at the expense of the vein and are caused usually by a large object For such lesions obliterative aneurosmorrhaph; with establishment of the continuity of the artery may be done

3 A large hole in both the vein and the artery with interruption of the artery for a short distance and the formation of a sac with two openings for the artery and two for the vein Obliterative aneu rismorthaphy is advised for such cases

4. An ancursm at the site of an arterial bifurcation with two or three arterial openings into the sac. The treatment depends upon the conditions present which are determined after the sac is opened Matas reconstructive or obliterative aneurismor rhaphy may be done

R. W. MCNEAUY VID

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Perman E On Circulatory Conditions in Arterial Embolism of the Lower Extremities A 4 ding S a d 1927 lm 413

An embolus in a given situation does not always cause the same distribution of symptoms The variations are accounted for by differences in the development of the collateral circulation This is true particularly where there is no secondary

thrombosis

On the proximal part of the thigh there are im portant communications between the internal iliac and the deep femoral arteries and on the distal part there are connections between the latter arterial system and the superficial femoral group of arteries In obstruction of the populeal artery there are possibilities for collateral circulation in the arterial system of the knee joint and in that of the calf muscles on account of the anastomotic branches existing between the sural arteries and branches from the posterior tibial artery All of these anastomotic communications and their great importance for collateral circulation are easily demonstrated with the 1 ray Anatomical studies have shown that in the adult they are easily visible macroscopically and sometimes of great size

The author reports two cases which were operated upon In one that of a woman with an embolus at the bifurcation of the aorta in the eighth month of pregnancy an aftempt to re-establish the circulation was unsuccessful In the other in which the embolus was situated at the division of the femoral aftery

the circulation was re-established

Lemierre A and Duruy A Embolic Obl tera tion of the Right Common II ac Artery Without Cang ene of the Limb (Obl te at nembol qu d I rière iliaqui primitive do te sans ga grè du memb e c rrespo da t) B il et mêm Soc méd d hop & Pa 1927 zh 385

A man 38 years of age who had had acute articular rheumatism at the age of 23 years and well treated syphilis one year ago developed a streptoco cus mitral endocarditis The right lower leg suddenly became engorged and thereafter felt dead The arterial pulse of the limb which previously was normal completely disappeared but the circulation was not entirely interrupted as the leg and foot remained warm and there external appearance remained unchanged The Pachon sphygmomanom eter showed minimal oscillations beginning at 9 for the upper third of the thigh and beginning at 6 for the lower thurd In tests on the lower leg there were no oscillat ons

Et ht days after the development of the us

turbance in the leg the patient died. During the eight days gangrene never threatened and the limb retained the same warmth and appearance as the opposite limb

Autopsy revealed enlargement of the heart in creased pericardial fluid mutral valve vegetations bilateral generalized and recent pleural adhesions, pulmonary cedema enlargement and soft degenera tion of the liver and large and small infarcts of the spleen The right common that artery was com pletely obliterated by a black thrombus cem, log The thrombus was very firm and intimately ad berent to the walls of the artery and extended from the origin of the common that to the bifurcation penetrating about I cm from the origin of the

external iliac and hypogastric arteries

The circulation of the right leg could not have been assured by the hypogastric artery branches In the authors opinion the blood supply was mun tained by anastomoses between the internal mam mary and lumbar arteries with the epigastri and circumflex iliac from the external that and the subcutaneous abdominal from the femoral These anastomoses vere very slender. The complete ab ence of the arterial pulse and the weakness of the Pachon oscillations indicated a very small blood supply to the leg. The circulation as suffi crent to prevent necrosis and a change of col 1 in th leg probably because the patient was confined to bed and during the last days of life was in a stupor WALTER C BERKET MD

Picard and Moure P Popliteal Arteri enous in eu isms Treated by Re ection of the Veins Lateral Suture of the Arte y (An vosme ent o v ineux poplité tr té p résection d la metsu t re latéral de l'artère) B H i mém S ni d

10 7 h 463 A Note on the Pathological Anatomy of Arte lovenous Angurisms (A t a rian tome p_thologique de anévrismes rté o ein uz) B ll et esten Sc at de h 19 7 lu 468

Moure reports a case of pophteal artenovenous aneur sm in which Picago resected the vein and satur d the opening in the artery He calls atten tion to the fact that in arterio enous aneurisms the extremut es the best r suits are usually obtained by surgical treatment. The favorable outcome is due to the lan e of time between the pr mary injury and the operation which allows the development of a collateral circulat on and reduces the likelihood of residual infect on from the foreign body Grego it ad ocated a lapse of two or three months before operation is undertaken Attention is called to the fact that operation on arterial aneurisms is often accompa sed by the mobilization of clots which a tas emb hand f equently produ e g ngrene In

stimulation by adrenalis whether the intracellular acidosis; caused by a lack of oxygen as in asphyxia gas poisoning circulatory disturbances and severe hemorrhage whether it i caused by the intravenous injection of acid or whether it i due to a disturb ance of the physiolo ical equilibrium of the cell by adrenalectoms or excision of the liver the ultimate result and the fundamental factors which accomplish restoration are the same

Shock the result of an interference with the mechani m of the transformation of energy extremely diverse factors are synergistic in its pro duction the cases may be divided into two groups one in which an excessive energy tran formation leads to intracellular acidosis and the other in which there is interference with internal respiration without

excessive tran formation of energy

Best Smith and Scott found that the blood of an etherized do contains o 20 units of insulin per 100 c cm whereas a normal dog s blood contains 2 03 units per 100 c cm Schultze found acetonuria in 67 per cent of cases after general anaesthesia in 85 per cent after local an esthesia and in 40 per cent after sp nal and thesia. M nnitt states that there is a definite relationsh p between the h pergly cemia and the toxic symptoms associated with ether anxithesia and suggests that the treatment should follo the line found so successful in cases of diabetes

The author concludes that surgical shock is a subo idation due principally to the in ufficient elab o at on of in ul n in the t saues with a resultant acidosis p obably intracellular as sug ested by Crile On this basis a pre operative preparation s m lar to that of Thallum r has been orked out

In the author's usual procedure, the patient is given 60 gm of glucose in a glass of lemonade and o units of insuli by h podermic niecti n the day before the operation The insulin is gi en the day before the ope ation n rder that the reaction will not come on unrecognized and in order that the antagoni tic action of atropine which is administered pre operati ely may be av ided. Patients prepared n this manner ithstand long and difficult surgical procedures v th very little po toperative reaction

Gr G \ COLLETT M D

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS Cox II C Fi st Aid Treatment in Cases of Pol

oning Due to R ttlesnake Bites 3/ 15 g 0 7 Ï 53

attlesn ke bite the fangs penetrate the tissues and the venom is injected u ually into the subcutaneo ti sue but sometimes al o into the muscle o th blood stream. When it is injected into the subcutan ou tis ue it cau es an outpouring of lymph th pericellular lymph spaces become engorged and the enom is dilut d and absorbed by the lymphatics and carr ed to the gener l ircula tion What injected di ectly into the blood t eam death us ally results in a fe v mi utes

The local s gns and symptoms of rattlesn ke bite

are (1) fang punctures usually two of them from 16 to 1 in apart that look like large hypodermic needle punctures and bleed out of all proportion to their size (2) pain occurring immediately and be coming intense (3) swelling which begins immedi ately is very tender and brawny and extends and increases rapidly and (4) di coloration due to the action of the venom on the blood and to sues

The constitutional symptoms vary with the amount of venom injected. Two drops is considered a minimal lethal dose for man \ snake can inject as much as fitty drops The average amount is to drops The constitutional symptoms appear early They include nervousness cold sweats and a rapid weak and thready pulse. The respiration is rapid and the temperature may rise to 101 or 105 degrees Neurotoxic symptoms-nausea vomiting diar

rhora and collapse-may appear

In the first aid treatment, a tourmouet should be applied to cause venom stasts, but not fightly enough to shut off the pule I'very twenty minutes the pressure should be lessened for from fifteen to twenty seconds, and after the first aid treatment it should be discontinued. The primary inci ion should be a crucial inci ion made over the fang punctures and as deep as the punctures penetrate Suction should be applied to the incrion to wash out the yound with blood. This takes from ten to ffreen minutes. The mouth may be used. After the first suction a series of small crucial incisions just into the subcutaneous tissue should be made above and below the bite and suction applied for thirty minutes By washing of the vound vith blood the enom I removed and the pain lessened

Extreme hamorrhage is not desirable as the venom destroys the blood the only object of induc ng hæmorrhage is to wash out the lymphatics A tourniquet should be applied during the suction When the bite is on an extremity the swelling can be used as a guide to the extent of the incisions If the swelling advances more incisions should be made as it is at the edges that the venom is absorbe ! After the suction has been continued for thirty minutes a rest period of thirty minutes should b given The suction should then be re at plied for another half hour The fluid obtai el at this time will be of a different character being made up of hamolyzed blood lymph and diluted venom

Following the second suction period a hot saturated magnesium sulphate dressing should be applied and kept hot If constitutional symptoms de elop the use of a rum is and cated

Suction should be repeated every hour while the inci ions are draining or swelling persists The use of morphine is contra in licated

JAMES B BROWN M D

Lee W E and Downs T McK. The Surgical Treatment of Carbuncies S is M & S 9 7 ltxx 425

Carbuncles differ from other forms of suppuration of the subcutaneous tissues in the anatomical and

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Gabriel W B Skin Grafts for Fistulæ P oc Roy Soc Afed Lond 19 7 xx 1 78

Gabriel reports a case in which there was evidence of spontaneous skin grafting on a large open wound twelve days after a fistula was opened In his next two cases he attempted skin grafting. In his second case the effort was successful. The patient had a large penanal absces When this was opened four Thiersch grafts were applied to the raw surface The grafts were left exposed to the air and Lept moist by dropping saline solution upon them every few ho rs Thre of the grafts took well wound was campletely healed twenty two days after the skin grafting Gabriel concludes that in selected cases of fistulæ with flat granulating sur faces Thiersch grafting is a good method of accel erating bealing VATHUR L SHREPPLE M D

Coffey R G Application of the Principle
the Quarantine in Abdominal S rgery An
S rg 9 7 laxes 808

Coffey citing lates work on the local effects of peritonical drainage states that drainage producer a flow of serum which in quantity is all out of proportions to the fluid in the cavity to be drained by in exact proportion to the amount of drainage material that is inserted a fact indicating that the serum is pured out as a result of the irritation produced out that the irritation produced out the irritation of the

Experimentally it has been found that ten name vicks mild dann exactly fear times as fast as one gauge wick. Therefore if a drain is to be used in the pertioneal cavity; it must be of sufficient quantitive and of proper quality to deliver to the surfact within a few boars the substance to be drained as well as the excess serum. If gaute is used for the drain it must be one iderable in quantity and the diameter of the drain must be as great where it mortified in the delivers of the drain and all as it is not that the surface of the drain must be as great where it has the delivers of the drain and all as it is not not the delivers of the drain and all as it is not as the surface of the drain anoth impervious substance such as rubber time.

For sola ron and the polication of the quizzatine as a fundamental principle the drain must be smooth on the side of the peritoned cavity and inoffensive to the abdominal organ coming into contact with it It must remun accurately in place and provide ample drainage of the infected or injured segment. In addition it must be so constructed that it may be removed with minimal

These requirements are met by using an outside rubber it sue covering arrangin gaue, uside around the affected area leading the gause to the surface and arrangin the wicks so that they may be pulled one at a time without distribun, the defensive wall that has been formed around the

The wicks used by the author are made firm strips of gauze 5 or 6 in whice that action a 55-in bolt of gauze. All of the cut edge are turn of in and rouned out and the wicks are t sted the wicks are spread out in a fan to surround the area to be quarantined and rubber tissue is wight around them. Coffey uses his quar nine for he following used for actions.

r Infection of the uterus and tubes s ch as follows miscarria es criminal abortion goporthem infection etc. Frequently conservation of the r i vic organs results.

2 Sepsis or gangre e of the gall bladd r such as is apt to occur in feeble or old persons Retrocarcal or subcarcal abscess in cases of

3 Retrocacal or subcacal abscess in cres of appending its
4 Common bile duct surgery in which the bile

ducts are infected
5 Les ons of the pancreas such as abscess
6 Necrosis of the bowel when the patient s condi

tion will not permit a radical operation
7 Extensive pel ic conditions in which large
areas of perstoreum have been temo ed at operation

8 The prevention of intrapentoneal adhesions.
The ricks of the quarant ne are removed under print is light intrious onde masthesia after it of seven days. The rubbe it sue is removed about annathesia outleen days after the operation no bing the beau is rested. I may the Gu out MD

Ande son C VI The U e of Glu se and I sulin in the I vent on of Surg cal Shock Calf i will I M d o 7 x x x 50

Shock may p oduce gra e exhaustion or be mai fe ted only b't an increase in the pull existe a full in the blood p essure and the presence of acidos. The form of acidous occurring: surgical and marsh or shock, a a ket as b ought ab ut by the income lete or faulty metabolism of i try acids such as occur in staryation a d diabetes.

Whether an intracellular cidosis is established in the b ain cells as the result of e cess e functions acts try forming a nd by pr ducts laster than thy can be chimi ated as i the cas in cessive e rition plays call injurie em tion et chrief a stimul tion and evilence (which they are reserving for publication elsewhere) that these favorable effects may some times at any rate be accompanied by a very strikin auto immunication as shown by greatly a creaved betternedal power of the blood it creaved betternedal power of the blood

ANÆSTHESIA

Eichholtz F and Butzengeiger O Rectal Annes thesia with E 107 (De Re t lna kose m t E 10) (17 r d d ul h G f Ch | 1 et | 9 7

Exhibolts reported that E to or avertin a rectal anesthetic first prepared by Willstaetter the chemical name of which is tribromethylalcohol was sent out by the I (dye works after easeful testing to van up ho pitals and clinics for trial

The preparation of the sub tance which was onmail done by Will tattler by vest reduction of from the best production of from the best producted by the ChryCliff) is now done on a larger scale by the rethods. When an aqueous obution is heated to particle of the best produced by the comparation of the production of the production of the production of the production of the prepare! strictly acc ring to the following treet inst

Heatin agl a flash tift may the degrees C a ufficient juantity of water to make the derived a percint sout in and then ald the weighed amount with the officer habin for five minutes a cler to slution will be obtained. This must be used within

t els h urs

Since these directions ha bee i f ll n l com
flaints of b sel irritati in have bee me less frequent.

Th substance has been gi in to mice as often a
fift time a and to rabbits a often as i ficen time
ith ut inju v. The en itt eness of the rabbit.

fifty tim s and to rablits a often as i fteen times ith ut iniu . The en iti eness of the rabb t s be class reduced by all ne an em h t r Ring a so uti n t th anasth tic. One ad antage of the anrethett the rat d letox cat n f llowing its we k turn I c n clousne s oc urs without any complete on In an male anaethesia is obtained th locs firm o too 30 gm per kilogram of et ht kespirati n ceases only when the fatal to cus et The fatal do e is more than o s are pe kilo ram of bod weight. In a series of e perments it was f und that remo al of the ther il teph n to a of the skull with removal of al " jurt the temporal lobe and the products a of arts en life e a sel nl a sh ht increase in the t me requir ifr It x catt n On the other hand the pen i ne used in a male by the removal of the Iral glads

I terrete em t I hi clinical expensions with the amp (the restriction to that t is a declaration of the product of the second of

On the evening before the operation versional is given and one hour before the operation to one gim of pantopon is given. Twentry minutes before the operation the anxisthetic solution is interested in a dose of o i gim of 1 to per halogram of body weight. The patient is usually askep after from five to eight minutes. If no change is noted after as immufer and the operation of the patient is supplied to the control of the patients of the patients and the dose of o object in the patients of the patients of

The effect produced upon the patient lumps the partons is that of a deep sleep. As a rule this sleep continues for from one to four hour. The return of consciousness occurs graduill, without vomiting or a tour feeling. An excitation can be easily overcome with pantopon. If the ans the is is not deep enough either is given but the amount used even inlo no operations never exceed from 60 to no gim. The u e of chloroform is to be stretch awordd. Unpleasant after effects such as intestinal irritation have not been noted since the I lberfield direction, but been I lived.

The substance has been u el for about 100 anarsthesia 200 of which vere for laprotomics. Younger patients require larger do es than older patients le the cases of patients between (o and o vears of age does of from 00 o 100 o 000 gm per hig gram older hot weight have often suffice! Yeesal cire must be taken in the cases of patients who are dehi-drated anatime or exchect and those with hepatic dies e. as the drug; eliminate fiving the line Rectal anasthers is continuing and in the properties of the color of

In the dicussion of this report NORDHANN (Berlin) stated that in the last nine months he has tried I 107 in 250 cases He has performed the most varied operations with it. M re than half of them were laf arotomies the were thyror ectomies for severe Base fou s disease and others were operations with an unfavorable progno is on patients ranging in age from 15 to 0 years for imann is opposed to a system of dosage by Lilograms of body neight based on the findings of experiments on animals. He bases his dosage on the requirements of the particular patient and in every instance takes the patient's constitution into account. He gives somen a smaller dose than men In 40 per cent of the cases irhalation was necessary in al its n b tu wall small amounts of ethal chloride or ether a re ufficient (bl roform and mixed and thetics are as ided Sondmann releases fr m gi ing add tional frees because of the risk of d trovin asers s In his fist ca es proctit s and tere m occurs 1 b to tra last 20 cases a which h gave the and theur in salep m calage there we ero ! ra

firtestical imitati nar i robam magic rephitis a ch secreto ed in two early ca co Trescer reree mechanical factors present in the regions in which they occur namely a thick tough true skin connected with the underlying dense is cia by strong vertical fibrous septa. These factors not only delay the I reaking of the original focus through the skin but force it to extend laterally and become

pocketed in the hones comb l ke area

The treatment con ists in the relief of tension an I the removal of dead tissue. As the carbuncle re-embles a honeycomb the incision to r lieve tension must be made at right angles to the cells In the method u ed at the Lennsylvania Ho pital the insulved area t divided into four sections by a crucial incision exten ling well beyond the indurated area in all directions. I ach flap is then undercut with a shart knife parallel with the skin and about milway between the skin and the deep fascia Thes incisions also extend beyond the periphers of the injurated area (auze soaked in some g remer le is preke l'under each flap and removed after from twenty four to forty eight hours. The dea I tissue lough within six or seven days at the mo t and the flaps are then allowed to fall into the sound to be held by a life me strans or second

ary sutures Other methods are not selable. The crucial in ion al ne is not sufficient Complete excision is more radical than is necessary involves a greater los of time and cau es more extensive scarring and deformity 1 DROP A COLLETT VID

Colebrook I and Hare R The Bactericld t Action of Mercurochrome Bill J Exper I' th 09

In view of the discret ancy between the results of loung and of Walker the following experiments to determine the bactericidal action of mercurochrome were carrie I out by Colebrook and Hate

Exper ment 1 (raduated dilutions of mercuro chrom in distille I water were made and of these in each case one part was ad led to nine parts of defbrinated human blood. After one hour at room temperature the bl ods were centrifuguized and the sera pipetted off The bactericidal power of these sera 1 as then determined a starby lococcus and hymolytic streptococcus being used as the test organi ms The test was carned out by in cubating in capillary pipettes as c mm solumes of each serum with 5 cmm volumes of a series of dilates is of the microbic culture and then explant ing these inf cted sera into melted agar in a letri dish

Samples of defibrinate t human Lxbers sent blood we e m ed with mercurochrome as in Fx periment i Each sample was then infected with staphylococci and its power to Lill these m crobes determined by in ulturing in slide-cells described by Wright Colebrook and Storer (1923)

[p remert 3 Samples of blood were drawn from a rabbit before and at inter als after an intrave 1 jection of mercurochrome (5 mgm per kilo) After separation of the serum from each of these

samples a bactericidal test was carried out as in Experiment 1 by the explantation method

Experiment 4 Blood was drawn from a rabbit before an intravenous injection of mercurochrome (5 mgm per kilo) Half an hour later a second specimen of blood was taken the rabbit kill d and bile immediately collected from the gall bladler A control specimen of bile was collected from a second (untreated) rabbit Serum obtained from the two samples of blood and also the bile specimens from the normal and the treated sumals were then tested with respect to their power to kill bacilly typhosus The reservoir pipette technique introduced by Wright for this purpose was employed (Wright and Colebrook 2021)

The results were as follows

Serum derived from human blood treated with mercurochrome (t in 40 000 to t in 10 000) had no bactericidal power for staphylococcus or hamolytic streptococcus

2 Human blood (defibrinated) which bad it ceived an addition of 1 in 10 000 of mercurochrome had considerably less power to kil staphy'o.oca than the same blood without mercurochrome 3 Bile derived from a rabbit which had been

given a maximal dose (5 mgm per kilo) of mercuro chrome possessed no bactericidal power for bacu I s typhosus The rormal bacter idal po e f c bacillus typhosus possessed by the serum of this rabbit was not increased by the injection of the

These results suggest that no direct bact or fall

effect either in the blood stream or the bile is likely to follow the administration of merry ochrome They ther fore afford no support to the recommen dation that the drug should be employed in epii camia and for the treatme t of typhoid carriers It may be objected however that the chincal records of many cases already published furnish & certain amount of evidence that the use of the drug has in some manner contributed to the recovery o patients suffering from severe septic infections The authors do not attempt to discuss these the tal records critically but put forward tental, ely &

pos thle explanation of them The records make it clear that the injection of the trug in man is ery frequently follo ed b form dable constitutio al d turbances as shown by the occurrence of hamatura violent purging rigors and stomat tis This being the case it seems to the authors possible that the remark ble chancel impr vement which is said to he e occurred in some of the septicamic cases within a few hours after the injection of the dru may have been brought about not by a direct effect upon the microbic infection but by an auto immuniz tion process initiated by the se ere constitutio al dis iurbance It is well known that such profound d sturbances-for example those manifested by collapse and the occurrence of rigors in protein shock -may evert a favorable effect upon the course of bacterial infections and the authors have

noted In a few instances three or four watery stools were pased but there was no permanent d sturbance. The falling off to sleep and the awakenne are agreeable.

KEUPTE (Nuremberg) reported on 300 anxisting says The dosage was 0 1, gm per kilogram of body we ht In 68 per cent of the cases complete anxieties a so obtained In 6 per cent other was nece say, in add itom. In 6 per cent ther result was nece say, in add itom. In 6 per cent the result was nece say, which is the says of the says the says of the says of

PRIBER (Berlin) deplored the schematic dosage. He beheves the attempt should be made to obtain full amethesa. He has obtained faultiess anxieties with from 10 to 1 gm and has noted no harm from 11 He disolves the drug in gum arabic.

KIRSCHNER (Koemgsberg) opposed the use of the agent in its present form stating that four deaths in

such a small number of cases as the e reviewed are too many when it is possible to induce 10 000 other anaxibetics without a fatahty. Small doses of the anaxibetic are not sufficient and with large doses an alarming fall in the blood pressure takes

place
BRICKMANN has used I top for fifty five anxs
thesias Sleep vas maintained for about three and
a hilf hours. In two cases there were very alarming
complications (respirators and cardiac disturbances)
Late injuries pneumonia and bronchits occurred
twice. One marked drawback to the method is the

marke! fall in the blood pressure
Fishholtz in summing up emphasized the im
fortance of following directions. He stated that the
I C due v orks has not yet released the drug but
he regards it as v orthy of a further trial

he regards it as v orthy of a further trial

Butzengeiger deplored the high do es which were
reported as being used at the Konnigsbers, chinic

STETTIVER (7)

of marked excitation all o cease! The anaestheir must not be administered under high prevair Vordinann d seribed a simple built to regulate the prevaire. He thinks it uses to remote any of the prevaire. He thinks it uses to remote any of the certain the total of the prevaire of the thinks it uses to the thinks it will be the certain the total of the certain the total of the certain the total of the certain the certain the total of the certain the loss sleep following the operation as it requires a long tended objects also

SALFRERLOR (Munich) stated that at fre he re frain I from using the anrith tie b cause the find ings of experiments on animals dil not seem to him conclusive but after hearing favorable reports from various clinics he began to try it out. He has since at an ione I it as he had unfavorable experiences with it. In some cases the patients were still very cyanotic appearing ur mic four hours after the operation. In another case severe typhoidal symp toms appeared after the operation. Two patients with marked intestinal symptoms hed to days Two patients after an amt utation at fa third die I with similar symptoms after an operation for Lastric carcinoma. It aut it the intestine showed marked changes (ero ons and hamerrhagic infiltrations) In conclu i n Sauerbruch stat I that when it is pe sible t ril the anesthetic of thes dangers he will use it a ain At the [re ent time he does n t regard it as suitable (or general use

REISCHALFR (Breslau) renorted upon sixty anas thesias In the cas s of young persons a dosage of o 15 gm and in those of older pers as a dosage of a t gm per kilo ram of body weight was used I or patients under 45 vears of age as much as o 2 gm has been g v n. In a large number of cases complete anasthe ta was not of trine! In to very rol ust nationts an acute circulatory listurbance was There were two deaths. In a instance leath was do to early e lyspecea which came on f ur hou after the operation Autop v revealed about the same c a lition as that se a in cases of late chloroform leath (fatty degeneration of the it e and kidneys) Reischauer emphasized th great arration in the length of time the drug re main in the body Because of the it is impossible t estall h a definite dosage and the drug is not harmless. In a me cases it loss not giv complete relaxation of the ab lominal wall inh lation anas thesia being necessary in addition. In such cases at a no g eater than th t of any anasth tic gent

Let a the the man and the man

periods of respiratory cessation (amplor sail lobed an ex-situless Unger has used the assethetic successfully for gall bladder gastine and intestinal operations even in the case of petions with marked jaurodice. If was employed all on the with marked jaurodice. If was employed on the operand patients who had past recovered in the period patients who had past recovered in stant attention is disadd unity for preuming constant attention is disadd unity for preuming conpanion the ansisthetic lesers further care [Iris]

VIFLENER (Acenigsberg) r porte i on 100 an the tas induced with L to? He has u ed this anysthetic in the cases f children and patie is of e ery age and of both seres Thenty of the ore a ns were laparotomics. Melzne has never noted irritation of the colonic mucosa. The falling off to sleep is agreeable. In only half of the cases was the anysthesia so deep that inhalation anasthes a nes unnecessary In three instances the drug failed entirely As a rule the at alemng has good miting did not occur The after sleep lasti gir as long as ten hours is a di agrecable feature. The patient cannot be as alened. In some cases severe po toperative excitation occurs (motor unrest and hallucinations continuing sometimes for t enty four hours) Sen us con bitions arose cum get ht en of the operat no A marked fall in the bood p tssure occurred five times. The patient recovered after the admini tration of camphor and adresa There were fou deaths (brain tumor ga tro-t its ostomy Base lo t di ea e and simple gotter) Melaner emphasized the inconvenience of the 12 L of individu I to age From the e pense es te ported he concludes that the anystretic a mo ding rous than others

Date i (tologne) di sol en he dru i stetat o fegrese C ni ju si form o i to i tig me i kilogram of hoch i egib i 't first he di i 't han a het in norrell stal solti. In the tin norrell stal solti hat het we di stall i i norrell stal solti hat het we di stall i norrell stal solti hat het we di stall i norrell stal solti hat het we di stall i norrell stall solti hat het norrell stall solti hat het norrell stall solti hat het norrell solti hat norrell solti hat het norrell solti hat

the ann th 1a SIEVERS (Leipzig) welcomes the drug as a good anasthetic for pediatric urgery. In fifty fi e ! his ca es c mplete anasthesia nd in fiteen a sau factory and sihe is w s obtained In eight reses the nx the a we unsatisf tors nd in el sen the roc dure lailed entirels. Ih fa lares were d'e in The in ects n part t e pul i n f the a æsthet. The in ects n
mu t he m i itho t pre sure l the eases of
children up t vears f ge th lo age is from a s to o 5 gn per l logram fb dy eght a du those t lder hild en from o 1 to 175 gm per his ram of b 1 ht Except for a f ta case of proct t th nec st the ere no deaths In two ca es there e ci ulatory d tu bances and in t a other the re we ere pratory disturbances. In o e c e th r a marked decrease in the blood p sur (rdi ol prov d of grat al e in these compl ations Dge t e di turbance nere not which contained stones but was without a trace of ca cer In another case one of carcinoma of the liver the histological examination disclosed tubercu

After a detailed discussion of fifty three cases representing (1) simple spontaneous curt of cases representing (1) simple spontaneous curt of cases represent of the case of

Crirr(C)
Ulmann H J The lise of Colloidal Lead in the

Treatment of Cancer After the Method of W Blair Bell Preliminary Report Kd I f 107 1 4/1 Sittenfield M J The Cancer Problem with

Reference to Recent De el pments A d 1 gv 19 7 11 4'5 Solland A Costolow W F and Meland O N

olland A Costolow W F and Meland O N
The Metallic Colloids in the T eatment of
Cancer A Preliminary Report K d Lyr
917 11 459

ULLMANN reports that he has use I collor fal lead in the treatment of cancer after the method of Blair Bell in a number of cases and has found that the clim alan I toxic effects show marked variations Re-ressions I quefactions and no demonstratle effects on the tumors were observed in different cases In no ca e in which the total I se of lead was less than 200 mgm was an apprecial le gr 53 effect on the tumor dem astrated at aut psy I umbar pain c astantly I flowed the injection and in a me cases there was abdominal pain Chills occurred in some instances and a sharp rise in the temperature was fairly constant. I sin in the turror a moderate increase in its size nausea romiting and anorema were the rule especially after the first do e Harmatuna was I und from twe ty four to forty-eight h urs after the injection in nearly every instance but soon disappeare ! An acute nephritis and a decrease in kidn'y fun is n are practically constant. The blood showed the m st marked and alarming of the toxic effects There was a primary drop in the hem globin () lawed later by a fecrea e in the red blood cell. Sti, pl g of the red cells was practi all constant and persi ted for a vary g time

time he is terration of it. Het to late that note case that on lail each build cet be still the patient is unable to stand a reduction of still art sopercent of he haddens functions if something it is prest if the harmoff in its below to be for the red blood cets be one two muson of the third which is a full time to in a clit along. Which is

volvement of the liver is not a contra indication it increases the dan ers of the treatment

As the tonic effects in a large majority of the cases were so alarming that the does recommended by Blair Hell coul i not be given efforts were made to find a less tonic preparation. A collodal lead phosphate was found to have no effect on the hemoglobin of rabbits injected with it over a period of six days. When this was used on patients its effect on the tumor bit applies of the patients and the patients of the patients are exclusive.

of colloidal lead and its toxic effect was nephpolic STITE-YIED also discuss est he Blair Bell treat ment but states that his experience with it chincalls and experimentally is not sufficient to permit him to draw definite conclusions. He cites Blair Bells work at some length from both the theoretical and the practical aspect. The statement is made that he lead treatment as it is now known is applicable only to called a distribution of the confidence of the

Other recent developments of the cancer problem discussed briefly by Sittenfield are the work of Warburg and his collaborators regarding the metals of most of the cancer cell. Lock in necessity times in dicating the infectivity of a cell free filterite in the production of some sarcomata and the work of lurross dealing with a Lock vitaminer unbalance in

the organism as a cause of cancer Solland Cistoron and Merand report the t sults in uses of malienancy treated by them lumng the past year with colloidal metals as a supplement to radiate a therapy. In none of the cases in whi h colloidal gold was used was there any apparent effect on the growth Colloi fal conner also faile I to produce n table effects except in one case of inguinal metastases. In the latter the growths diminished in size but generalize I metas tasis and leath soon f ll wel The results obtaine ! with coll idal lead also were di appointing. Twelve cases were treated all of them postoperative recur r n es or cases ra hated to the saturation point and hopeless from the point of view of any other A brief re une of the case records is treatment pre ented Only two of the patients showed any apparent improvement. In to cales death was undoubtedl hastened by the treatment

the treatment

Jeg for Spontaneous Cangr ne (pentan n graen) Now (k 925 1 t f 23 327 and 454

This monog aph is based on forty cases of spon taneo a gan rene tre ted in the period from 1911

The author divi es the hit is of the condition into three periods (1) the Wilmarter period ien arter is o literan) (2) the Zege von Vaniculei period (2) conference and (3) the Oppel period (arterios) supra enalish

The discu sion of the c'i ical characteristics of the co diti n is bernn with a review of the romen

MISCELLANEOUS

CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

White C and Weidman F D Pseudo-Epitheliomatous Hype plasta at the Margins of Cuta neous Ulcers with Especial Reference to Histo logical Diagnosis Report of Light Cases J Am 3f Asr 10 f lauvi i 1010

The authors state that while it has always been recognized that epidermal hyperplasia may take place at the margins of cutaneous ulcers the extent to which it may develop histologically does not appear to have been emphasized or evaluated here tofore

Their studies show that every gradation of hyper plasta occurs in such ulcers even those which resem ble early epithelioma histologically

In some of its early stages and even when the lesson is definitely developed it may be impossible to distinguish squamous cell cancer histologically from non malignant hyperplasia Accordingly there are definite limitations to the recognition of early canter

The authors onclude that the diagnosis of car cinoma in such cases is justified only when the in filtration extends to or beyond the level of the sweat glands and the pathologist is well acquainted with the behavior of hyperplastic epidermis in FRANK I MCGONAN M D general

Julimaki 1 The Formation of Gastric Carci noma in Albino Rats Fed on Deficient Diets J Ca er R ach 1926 x 469

The author has attempted to show that gastre carcinoma can be produce I experimentally by diets deficient in Vitamin A proteins and certain mor game salts These diets must contain all necessary nutritive elements except vitamins must supply the necessary calories and must be digestible and palat able. In the experiments reported which vere per formed on rats case n was used as the source of protein dextrin as the source of carbohydrate and olive oil as the source of fat The methods used to purify these substances of Vitamin A are described. The diets consisted of food materials mixed in the following proportions

Diet deficient in Litamin A destrip 65 per cent casein 18 per cent olive oil 10 per cent yeast 2 per cent and salt mixture 5 per cent Diet deficient in Vitamin A and protein dextrin

82 per cent oh e oil ro per cent salt musture 5 per cent ye st 2 per cent Darkon juice 2 ad libitum Diet deficient in Vitamin A and morganic calcium and pho phorus dextrin 68 per cent casein 18 per

ent olive oil 10 per cent yeast 2 per cent and

salt mixture per cent

The diet deficient in Vitamin V was continued f from two to twelve months that deficient in hits min A and protein for from one to four months and that deficient in Vitamin A and inorganic calcium an I phospherus for from two to five months. During the feeding each rat was kept in a separate cage Treshly prepared food was given four times a The body weight was determined twice a week at a definite time

Necropsy often revealed hamorrhage in the stomach. In the fore stomach pale grayash creum scribed thickenings were often found. These ranged in number from two to twenty and frequently were as large as neas. In their centers there were sunken

or concave pots

From the microscopic findings the author con cludes that carcinoma begins with hyperkerato sis The hyperkeratosis is followed by growths of papilloma heterotopical extension and finally con spicuous destructive extension of cell growth 10 cancerous transformation

PREDERICE C BA CROFT MD

Strauss O Th Spontaneous Cure of Ca cinoms The Findings of an Inquiry 11 de with the 118 of the German Central Committee for the Study and Control of Cancer (U ber d Spotanh I ag des C reinom Ergebais ein Umfra, demit Unterst tzung des d tiche Z ptraffomtes sut Eriors h ng und B k empi ng de Krebskrank be t eranstaltet y d) Zi chr f K b for h 9 7

The purpose of this investigation was not to col lect a senes of unusual cases of cancer but to deter mine whether the term spontaneous healing is justified Only if it is justified is there any u. in attempting to build up a method of treatme t hav ing as its object the strengthening of the dennie mechanism of the organism It seemed desirable to determine also whether the number of spontaneous cures as compared with the great number of ca es without such cure is of any significance

The author calls attent on to the fact that since the work of Lomer published t enty four years ago there has been no change in the status of the question except that we have added to our term nology cer tain words with a scient ac ring which hide our ignorance and that as a result of a more crucal a titude the number of accepted cases of sponts neous cure has become somewhat less

From the dat collected Strauss is unable to pe the impression that error in the disgnosis plays an important rôle. He reports a case of his own in which a tumor diagnosed at laparotomy as

an inoverable ca canoma of the gall bladder subformed seven years late disclosed a gall bladder o the hi hest possible level and there is abun lant huical evidence indicating that especially in urnical tuberculosis this may be done by helio

urgical tuberculosis this may be done by helio herapy
Allison reviews his observations at the clinics of

Rollier in Levsin Switzerland Gauvain at Alton Bristow at Tyrford and Girdlestone at Oxford England and at the Nev England Leabody Home for Crippled Children in Newton Center Massa

thusetts'
According to impressions gained at the Rollier
thine the great catastrophe of surgical tuberculous
surgical interference. The treatment indicated is
rest and expo ure to the sunlight. The length of
time required for a cure is of secondary importance
Surgical interference is dangerous at best and in
most cases except those of renal tuberculous leads.

to d aster In renal tuberculo is however removal of the tuberculous kidney is necessary

At the Rollier clinic cases are treated with hel o therapy for periods ranging from two to ten yea s Intermissions in the treatment are dan erous. It is claimed that a complete cu e is finally accomplished The cure is judged from the roentgenographic ecord The advi ability of the resumption of function is decided by the roentgenologi t who has no clinical knowledge of the patient's progre s When the \ ray plate shows re onstruction of a joint or a sufficient bloc about disea e l'vertebra the pat ent is allowed up and about Recumbent pat ents use their mus les and move the diseased joints as much or as little as they wish d sease is treated by recumbency without braces in jackets. Hyperextension of the spine is actively encouraged so that the erector spine mus les be come well developed and strong During onva lescence the apparatus used for p otects n is of the lightest type possible-cellulo d or light splints

In the New England Peabody Home for Empide Children it has been found that in pin I tubercu losis success in impro ing the deformity depend upon the reponal localization and the extent and du ation of the d sease. In cervicodorsal tuber ulosis thrie is no improvement whereas in cases of upper forsal tube culosis improvement results in tube culosis. The tubes of imdedorsal tuberculosis in 50 per cent in tubes of imdedorsal tuberculosis in 50 per cent under tuberculosis. In 50 per cent under tube culosis in 66 per out and in those of limither tuberculosis in 50 per cent in Fractically, complete to vect on of the delormity is possible when only two adjacent ve tebral bodies are diseased.

Hips and knees have healed to the e tent that weight bearing without re activation of the symptoms is possible. In tarsal involvement marked impro em nt has resulted. Spina ventosa finally heals with 1 title esdual disturbance of function and surprival 1 title deto miv

Heliothe apy should be a pplem nted by rest good fo d Iresh a r su greal protect on of the d sease I areas and pleasant su roundings. In many cases Allison ha employed blood t ansfusion with benefit

In conclusion Allison states that the end results of heliotherapy are as yet to be estimated. How much and how permanent healing takes place it still unknown Enthusiasm over 1 hat is now ac complished at institutions employing heliotherapy may lead to the belief that tuberculosis in its surgical manifestations is a conquered disease process but disappointment will surely be the result of this belief and present of the foreign of the surgical process of the period of the foreign of the surgical to a signed to ass it the body in healing are of value and re ult frequently in apparent cure and lessening of the period of tavaldism.

Allison believes that in the cases of children with bone and joint tuberculosis the element of time required for treatment may be largely distrigated but in those of adults it is of great importance especially when ultimate cure means the final ank) losis of a joint

The a ticle is supplemented by a number of roentgenograms and photographs

CARL R STEINE M.D.

DUCTLESS GLANDS

Wintz H E perfences with Regard to the Influence of the Roentgen Rays on the Glands of Intern 1 Secretion (Erf hru gen mit der Bee a fi 5 g in reket niche Dr sie dirth Roent g strahl n) St II the ape 927 xxi 42

The glands of internal secretion act upon one another not only through the blood stream but also through the medium of the ympythetic nervous system. The latter also everts an influence upon the endormer system.

The different glands of internal secretion way, in their sensitivity to the X-rays. Those irradiated at times of increased activity are more sensitive than others. With graded dosages of rendige irradiate do the following edit is on the glaves are conceivable (i) total destruction of all parts of the beneviable out maping to the surrounding tissues; (5) emporary damage to all cell structures such that the less sensitive tissues can eventually recover (3) permanent destruction of the very sensitive cells staperequisite to the structure of the very sensitive cell staperequisite for this effect is sufficient difference in sensitivity, between the vanous cells) and (4) increased activity between the vanous cells).

For Results 2 and 4 very exact dosage is neces sary. This is rendered difficult by the situation of the gland as regards the tissue lying over and under it which can us not only quantitative but also qualitative changes in the dosage. With this fact in mind it has been found that in the overy the following changes can be produced.

With 45 per cent of the skin erythema dose de struction of all of the internal secretion portion of the organ and preservation of only the connective tissue stroma

With 34 per cent of the skin erythema dose per manent amenorrhoza In this case the changes due clature. Jenovo dua lea the course of the list astitude was along as (1) the of monosated stage in which the patient complains if no subjects of a tutbances and (1) the lear menerated stage which may be subdivided into an technique and a pier exampenous stage. The foll wife of clinical foures are leverabled artennederoide it curvations (Jong, von billerruns). Hencegor at the curvations (Jong, von billerruns). Hencegor at the continuous and call it and a seed that it form of a rentaneous gangen.

Frigit sis is tlaced upon the line n suity if each with a different path to call anate my list a similar clinical course and cases with a similar titl I meal anatemy but if derent election rules.

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the ald sees in of the author of its call then flowed by stoff the pat ats were between the cast of ar. The choical important to the cast of are the cast of a supercrease as a

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ise existant sateraly been found in jegor and thee so of the condition are numerous to the fix nos three questions must be answer in (1) whether the main arters of the extremits

classed and it is at what le el () the nature is the process that has led to the obstructs not the attent and 13 b w the dease is m indested that all. The instance cannot be as each of liptus no it watercorrams m le with cotrast m da. The an ert the ec ni let min the group not of the lease he there is harter it.

si uto into 1 ation of nl ctl

On the lass f th clini il manif tation the author is ides the di ase into lour type and 10

sclerotic rheurist sm (70ege von Mantei, elt thrombo sa ettis (Buerger) intermittent chied a tion (Charc t) and the primary gangeno s forn The rist and third have the mo e favorable progno s and the second and fourth a port p e

The therapeutic pos if inties fall into four groups (t) amputation f the extremity (in general intox icate n with tachicardia albuminuria severe pro gressise i scal ph non a an i gain) (21 mea ur s rected towar I the diseased bl al sessels out a artert senou anast m us fran Mart n 3 Castres tegnit I ration of the sein according to th Oppel method ant hatherms (3) meas res d en d I and the nerves of the liseased extrem to a a ale hol injections free in stretchin and lis in of th nerve and (4) m acures etted t arithem taled m such as mi ors of six m chlory 1 selutions according to the 3 s evens h ga method anntog's rest operations on the enfacture glands (jun phreet m) trangl misting of the suprar rall) rean therap and organ tran clantate n. The sath r illustrates the age of these method of treatment by case histories and criti. Ily re iens c pleasing crerative methods I it the cases are reviewed by fly The bb

I graj h) includes 126 references R DW126(7) GEMERAL BACTERIAL PROTOZOAN AND PARASITIC INFECTIONS

Reut C II: Tetanus and Its Treatme I with a Chinical Can ideration of Nine Cases with Sc n Reco e les Ob Su M J tot 1 57

Death from tetanus results for me the exhibition of client to the general red muscular contractions. Large 1 set of seclatives anth careful medial superson continuous of of the most imports that tops in the successful treatment of the collation.

The g neral h peles ness hich often persales the min is footh phiss cans and the lust when a diagno of t tame is reale is unwarranted. The uther reports nine is a swith see a recorder one

in an inding is monthly of the tradeum of the in-The tradeum of a sits in the admin of the inant letaru secure by subcularoou, into one and lintary into the the preferred method admin with a law of the control of the local line in the control of the control of the local interpretation of the control of able forced feeling if great as in keepling up there is no qualt antibodies are developed.

Alli n | Hell theraps in Sursical Tuberci losis

(to or I C utn VD

The progr s that has been rua le in the tered in it is g al tube rules 1, the use of hlow the raph he been live which to the tresh, and that the local tuber ul u proces i fercondar, ing it in et the tuber ulou orga in man whole Fulse ulo se in recognized a a dease who he must be fught by raining the point if resistance.

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NOTE - THE BOLD FACE FIGURE IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS I SUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

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to the deficiency in orarian function are less marked than after total castration as the internal secretion

of the thecal-cell daughter cells is not affected. With 28 per cent of the skin erythema dose only temporary amenorrhoxaresults which after from one to three years gives place to normal ovulation and

nay even he followed by pregnancy with normal offspring

As is well known the occurrence of one or more

As is well known the occurrence of one or more additional menstrustions after irradiation depends upon the time during the intermensitual period at which the treatment is given and the damage that is done to the grassian follicle and the corpus luteum formed from it The cells of the cornus luteum vary in their sensitivity to irradiation according to the stage of their development at the time of the exposure The corpus luteum is less sensitive than the granfian follicle. Of the various developmental stages of the corpus luteum sensitivity is greatest in the proliferating stage less marked in the secre tory stage still less marked in the lipoid stage and least marked in the obliterative stage. The sensi tivity of the ovum parallels the sensitivity of the follicle in that it increases as the follicle grows but on its lil eration from the follicle it becomes insensi tive. This explains who ova already released at the time of irradiation may be fertilized and develop into undamaged embryos while ova which are still in the process of development during exposure to the roentgen rays are destroyed by the same

dosage
I rom the foliades damaged by irradiation there
develop carpora attetica which during the time of
the temporary amenorhoas take up the function of
the corpora lutter suff ciently to prevent disturbances
in the general condition. However, such corpora
attentia, are present of the slant explainances
are present of the slant explainances. When
the per cent of the slant explained dose. When
the per cent of the slant explained dose when
they also are destroyed whereupon the entire internal
secretion of the oursy excess and marked symptoms
accretion of the oursy excess and marked symptoms.

of ovarian deficiency appear. A difference between 28 34 and 45 per cent of the skin erythems dose is evidenced also in the effect on the metabolism. With increasing doses the basal metabol c rate is lowered to a corresponding degree.

The relation between the ovaries and the other glands of internal secretion is extraordinarily lable with regard to relations between the o ary and the fullyoud roentigen treatment has demonst ated the following facts

I In thyrogenic dysfunct on of the ova y car ed by hyperfunction of the thyroid gland it adiat n of the thyroid stops the polymenorrhoza and dy menorrhoza

2 In hyperfunction of the thi oid due to oranza influences such as an inflammatory condition tem porary exclusion of the ovary results not only in cessation of the polybypermeno thata but also in termission of the beginning hyperthyroid in 3 In ovarian dysfunction due to a hypothyrois

3 In ovarian distinction due to a hypothreous the most definite forms such as myrachem 13 alo genital aplasas but the former frustes lead to polypermenorables. The latter may be favorable as fluctuced by the administration of browned posts in the former should of a polyper former between the former should of a polyper former between the former between t

The relation bet een the ovary and the hypephysis may be influenced by radiat in when hyper memorphica is pire ent on the basis of hyperpita tair or A single exposure of the hypoph) is give a good result

a good result.

Several observations have sho in that there is a relation also betaken the thymus and the out is 3 to thowever the nature of the action? I he is reasonable to the student of the stone of the fanding are too contradt tory to warrant general rules? For recallegen treatment

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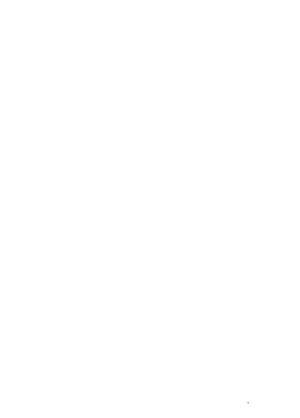
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Supplementary to

Surgery, Gynecology and Obstetrics

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INTERNATIONAL ABSTRACT OF SURGERY

DECEMBEI 1927

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Eggers T Pneumocephalus and the Fscape of Spinal Fluid I om the Nose After Fracture of the Skull (P umoceph lu 1 Lq hoc n 1 na h Sch edelfr ktu) 1 h f kli Ch 1917 cf

S not the era of encephalograph, the neture of the art filed skull has been famil at 1 re 100s to that time collect ones of art in the skull were rately observed in case of fracture of the base of the skull gundon injuries and the like In 1923 Schlödfer publish hed a collective review of the literature of such cases class I sing them as cases of intercannal such cases class I sing them as cases of intercannal in the former there is case of pneumocephalus In the one there is case of pneumocephalus In the one there is case of pneumocephalus In the substance o between the cerebr I surface and the substance o between the cerebr I surface and the value of the transmit I the latter the air accumulates within the spaces containing cerebro pinal flust such as the ventricles. It reaches the ve tricles either through the dest ved ce cheal it use or by the obogogial rout the subarachnoid space the pologogial rout the subarachnoid space the floor of the subarachnoid space the subarachnoid space the

Resides Schloffer's case a case of pneumocephalus folloing a facture of the base of the skull een by krogus is described. The uth reports aloin detail the history of a case in which the right lateral restricts became fill duth air following a circle facture of the skull.

The patient las a man 34 cer of age who sistance a severe compound depre on fracture in the region of the night fontil and pure etal lons a said factures of the bone ob is The p tert rw ll of the night fontil and pure etal lons as the night of the night fontil a man opened and the cill so of the night fontil the night fontil the night of the

Un let light masthesis induced with narrylen the wound was examined and a depressed periostein covered piece of pone about the size of a 5 mark piece was rai el. From this fracture four or fixe his ure radiate in a stellite manner and in places agaped as much as 3 mm. The periosteim was sutured the soft parts were temporarily tamponed and testains antitionia was given.

Convalescence was fairly smooth. After five days the patient complained of severe headache but hal clear onentition and no retrograde amness. On the twenty that day following the injury after the ab ente of symptoms covered days some coagulated blood escaped from the right side of the nose follo ing f rethe blosings of the nose There was then a continuous dripping of a clear watery fluidances. The continuous dripping of the nose two house and flow of spinal fluid. In a period of two hours about 25 ccm escaped. When the patient was in the recumbent position the flow was somewhat the recumbent position the flow was somewhat

The contgenographic findings were in addition to the fractures an air filled night latered ventricle such as 1 seen in artificial pneumocephalon and light areas about the size of a dollar situated supta cortically over the right frontal region of the brain and on lateral exposure over the occipital portion of the brain. No clinical symptoms or complaints

ere referable to these fin l ngs

The escape of spinal fluid ceased spontaneously after three weeks. The paralysis of the oculomotor nerve receded but the right eye remained blind. The escape of cerebrospinal fluid up to 200 c cm pe day was borne without note or thy disturbances.

pe day was borne without note orthy disturbances
S x weeks afte the first demonstration of air no
air was found n the roentgenogram

As seve e disturbances are absent oily when air

take the pi ce of escape i fluid or destroyed brain to use the author believes the air fir t entered at the time of the escape of spinal fluid. He concludes that the dura and the arachnoid membranes nere opened inward by the injury of the right ethnoid cells but were closed off by coagula and addes ons. They



eye there was widening of the entire scotoma tree for both eyes

The author appends the histories of several interesting cases

Virgil Wescorr M D

EAR

Lussmann F J and Bendove R A Chronic Otitis

Vedia in the Tuberculous Local Ultraviolet
Light Treatment 1 & Ot 12) g 1 9 7 1 153

In routine examinations the authors found chronic ottis medis in about 1,5 per cent of all tu berrulous patients. In about 80 per cent of these it was undatted And fast backli were found in only three cases in which the sputum revealed many tuberele backli over a long period of time and were generally distovered during an acute exacerbation of the pulmonary disease.

Tuberculous of this media has an insidious and usually painless onset. It is associated with a profuse intermittent creamy and at times feetid and bloody discharge and causes rapid impurment of hearin.

The rational treatment is stimulation of a healthy local tissue growth. This is best accomplished by mild and slot radiation with ultraviolet light from either the solar rays or the quartiz light. Excessive tadiation may do more harm than good. The dosage should begin at one minute a day and increase up to about thirty minutes in from one to he months.

NOSE AND SINUSES

Turne A L and Reynolds F E Nasal Mucous Polypi Intrana al Operation on the Ethmoidal Al Cells F rulent Leptomeninghtis Death Autopay J L) 1 Ot l 9 7 11 5 5

To determine the paths of infection to the bruin meninges and venous blood sinuses from neighboring peripheral for of infection, the authors studied micro copically tissue taken at autopsy from a case in which death had been due to a purulent leptomeninguis following a bilateral ethmoid operation.

From these a minations they conclude that the ewas an actic diditation if the pen incu I limp hate what has to compared to the diditati in oil the limp test has contacted in the diamators is in other parts. I the body and that the I ptomenagatis was due t a purulent infect in I one of the didated sheaths of anolfactors are with a vettended upward to the meanness. Was I as R W is Z M D

Mackenty J E \a pl aryngeal At esia 1 .

Mackenty first reviews the experience of others in the treatment of naw pharing all atress

The chi I vmptom of the ond ti n is of course partial re mpl te obstru tion of n sal breathing complete of truction is rare. Nasopharvngeal atre sia may be congenial or acquired. True congenia

tal atressa is due to embryonic maldevelopment and not to inflammation. The acquired condition is caused by sphilis trauma diphthena tubercu loss and simple inflammation. The diagnosis is usually easy. Congential atressa is successfully tested by division and dividison of the obstructing diaphragm. In acquired syphilitic cases the programs is post in case of testinate atressa to the most is poor. In case of extensive atressa those in which the whole phary no is contracted to the base of the contraction of the contraction

The author outlines two methods that have been successful in his cases. In the fir t adequate flans from the postenor pharageal wall are doubled backward and upward upon themselves so that their raw surfaces are brought against the raw surface of the soft palate. All sutures are tied over lead disks and through small lead tubes. In the second procedure the attempt is made to produce a cleft in the soft palate as far up toward the hard palate as seems necessary for a permanent opening. The latter method is used when an adequate flan from the posterior pharangeal wall cannot be obtained These operations are followed by dilatation to the necessary degree. The methods are shown by W M PATON M D illustrations

Barnes II A Malignant Tumors of the Nasal S nuses A Further Repo t on the Results of the Wide Open Operation Followed by Imme diate Radiation 1 h Ot 1 y g l 927 vs 123

The author reports his results in the treatment of malignant sums tumors by a combination of opera tion and immediate radiation. This procedure is based on Vouve I started inhostomy with the addition of cutting away of the soft issues of the cheek to les e a wide permanent opening and immediate radiation to devitalize any particle of tumor that may remain

The radiation treatment is given with 100 to on-mm tubes screened with 0 a min of platinum and 0 5 mm of brass or 1 th 2 mm of lead 11 mm of brass are left in place for from twenty four to forty eight hours. If suspected 5 nuses are opened wide and thoroughly cleaned out. In every case of orbital in the control of the c

Tumors of the n sal sinuses include all varieties of carennoma and sacroma. The epidermoid carei nomata are the most malignant. The basal cell careinomata are only mildly malignant and respond best to radiation. Only those cases are considered inoperable in which the pre ence of metastases is demonstrated.

The operative mortality is about 16 per cent A cure is obtained in ab ut 52 per cent of the cases

MANFORD R WALTE M D



Zimmermann L M The Relations of the Parathry of licomones to the Calcum Content and Ching lat on of the Blood with Particular Reference to Jaundice (Ueber de B z bu gen de Epith licorpy the Trunons rum Kallegh lt des Bit ts ut a z r blutg nanung unter be de er Bernet. hi gung d' Gelbsucht) Al II h zek 1931 1 2 45

The question of the favorable effect of calcium on the coaculation of the blood 1 of special interest to the surgeon in cases of saundice. However, although emment chinicians give a daily intravenous injection of calcium chloride solution for three days before operation as advi ed by Mayo, the theoretical effect of calcium on coagulation lacks a solid foundation and it has never been satisfactorily proved that the delay of coagulation in jaundice is due to a deficiency of calcium in the circulating blood. King and Steward succeeded in increasing the calcium content of the blood by about 20 per cent after legation of the common duct but such an increase can be ob tained by the oral administration of calcium only in cases of tetany in which the calcium content of the blood is abnormally lo When calcium is ad ministered intravenously its excretion begins im mediately Therapeutic doses are usually excreted thin one or two hours at the most within four

It is a surprising fact that when the calcium comtact of the blood is low as in tetrany a harmorthagic dathesis is not observed. Simpson and Rasmussen fere usespecisful in influencing coagulation by removing the parathy road bodies. This is explained however by the work of Stuber and Focke who bound that coagulation is not dependent upon the bound that coagulation is not dependent upon the repender acting comments of the properties of the potential as a bindent cathon in sensitization and pree pitation of the p otens.

hours

In 1915 Collip devi ed a new method of increasing the calcium content of the blood with the aid of a homone derived from the parathyro ds. With this preparation he was able to increase the calcium content to secral times the normal value cen to a fait by sperationary Collips result he received wide confirmation 1. ni ject on of this bormone mobilate! the calcium from the tissues especially

the boos:

Annarmana pro luced a considerable increase of the calcium content of the blood the this hormone and then stude of the effect of the hypercalcemia on cognitation. He used Stephan's mod facation of Booms method A spectmen of blood taken from a few first of the same and the student of the proteins one consistent with the other with regard to its calcium contents as the other with regard to its calcium for the student of the same subject showed scarcely any difference to the same subject showed scarcely any difference to the same subject showed scarcely any difference to the same subject showed scarcely only the same showed some subject to the same subject showed scarcely only the same showed some subject to the same subject showed scarcely same same subject to the same subject showed scarcely and state showed some subject to the same subject showed scarcely and state showed some subject showed scarcely and subject showed scarcely and state showed some subject showed scarcely same subject showed scarcely same showed some subject showed scarcely same subject showed scarcely same showed some subject showed scarcely same showed some showed some subject showed scarcely same showed some showed some subject showed scarcely same showed some sh

The same findings were made in man In spite of the increased calcium content coagulation was not hastened

The findings of these investigations indicate that the administration of calcium to increase the coagu lability of the blood in cases of jaundice is futile Zimmermann concludes that the chinical effect of the calcium solution; notability to be attributed to

its hypertonic character

The question as to the part played by the

ine question as to the part played by the ionized calcium in relation to the total calcium is not dealt with as it is supposed that these variations are of little practical importance LOTER (Z)

Kendall E C The Physiology of the Thyrold Gland 1tla t c W J 9 7 x 600

Two important intestigations on the influence of the thyroid concern the basis metabolic rate and the protein metabolism. The isolation of thyrounishowed conclusively that the physiological activity of the thyroid is dependent upon this isoduce containing compound. One milligram of thyroun produces an increase of about 3 per cent in the basal metabolic rate and the total amount of thyroun functioning in the body is probably not more than from 10 to 12 mgm.

The most accurate test of the activity of the hot of gland 1 the determination of the basal metabolic rate. A few milligrams of the roun ever an influence for five needs. The minute amount of thyroun is responsible for approximately approxi

Following increased thyroid activity there must be an increase in pull-e pressure the volume flow of blood the total absorption of oxygen and the amount of carbon dioxide given off. In the absence of sufficient carbohydrates there should be a break down of protein in order to sustain the high level of energy production.

The anxima sometimes found in cases of myrce dema is relieved by thy roun Changes in the tendon reflexes have been noted. The conduction time of the nerves is decreased. The acuity, of hearing shows an increase and the speed and manner of speech are improved. The growth of the long bones and the skull of newborn rats is influenced by thyroun.

In exophthalmic goiter the suprarenal and the thymus are hypert ophied Epinephrin mobilizes the active agent of the thyroid

In estigation of the physiological action of the thyroid lead directly to a study of the processes of oudation in the animal organi in The problem now leading the themselves and the physicist but they must closely correlate their endeavors with clinical observations. The medium in which thyroun functions is complete and colloidal in nature

From a study of s mpler systems it can be shown that certain catalytic substances in turn require a

MOUTH

Stew et D : Som A pects of th Inners tion of tiel eth let will len i jit

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15 N : MD

whether a really progressive case of Basedow s dis case can be cured by this means alone

According to Curschmann von Mueller Porges and Kocher radiotherapy sometimes has a favorable effect especially in hyperthyroidism and cases of mild slowly progressing Ba edow s disease Cursch mann has obtained a cure in 60 per cent of such case with the treatment and Locher has obtained a cure in 30 per cent Very careful measuring of the dosage is necessary The dosage for a given case cannot be determined in advance. Unfavorable reults such as hypothy roidism and my acedema occur according to Kocher their incidence is 10 per cent Sometimes irradiation fails entirely. According to you Mueller at should be employed only when opera tion is out of the question. Kocher has noted that when the patient is too ill for operation radiotherapy is no longer of benefit TROMP (Z)

Barday A E and Fellows F M Hyperthyrold ismTreated by Rays A Record of 300 P vate
Case B t J R d l 9 7 x xil 2 2

The authors analyze the results of roentgen ray treatment in 300 consecutive unselected cases of hyperthyroidism The re ponsibility for the diag host rests upon the physician referring the patient The chief diagnostic aid 1 the history The meta bolic rate is of less value. The results in the cales revie ed nere as follows

3 P
63.3
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5
6 6

The first favorable sign is usually the cessation of nervou ness Thi i followed soon by a return of energy and strength The cardiac symptoms like the others improve slowly The pul e rate decreases by the end of the fourth cel. There is a decided gain in weight the average being 17 lb Goiter and exophthalmos are anable in their re ponse to treat ment but both persist long after the other symptoms ha e been relieved

In the cases re neved the t eatment const ted in the use of \ rays of medium a e length One third of a skin erythema of filtered ir adiation as pientwice a neek Som impro ement a usually noted in three eeks. The inter all bet cen the treatments were then len then d. The smallest number of treatments resulting in a cure The avera e number was about t ents reres ions nere common. If the pat ent ties to d too much during a per od of re ression a seri us relapse may occur Relapses ere ove come by creasing the frequency of the treatments and by e t The latients were u ually on the ay to re after from six to er ht weeks

The authors conclude that bile slo the method is safe in competent hand nd its re ults are permanent

CHRIE H H OCK MD

Fit att C. A. The Control of Hyperthyroidism by Thyroidectomy Results in 100 Cases J im M Ass 1927 leers 519

Elliott reports the findings of re examination of too patients who were operated upon for hyperthy roidism in a general hospital Many of these pa tients had been severely toxic Sixty seven were operated upon from six months to two years pre viously and thirty three from two to six years pre viou ly Sixty t o of the goiters were exophthal mic thirty two were adenomatous and six were of an indeterminate type. Eighty three of the patients had been treated previously-forty four with 10 dine tienty by radiation and nineteen by oper ation Fifty nine had had hyperthyroidism for a year or less and forty one for from one to thirteen v cars

All ere given bed rest before the operation Sixty nine received preliminary todine medication In fifty of the fift five cases for which the records are complete there was definite improvement in four sle ht improvement and in one no improvement The general improvement paralleled the drop in the metabolic rate

All of the patients resumed their former occunations At the time of re examination seventy considered themsel es perfectly well. Amety one had a normal metabolic rate Residual organ injury was recorded in fifty two cases In forty one it was due to the hyperthyroids m in five to the opera tion and in six to other causes Four patients had a mild per istent hyperthyroidism and five a sub normal metabolic rate

Laryn eal injury was noted in nine patients. In six it was temporary and in three permanent Postoperative tetany developed in four cases and in one case it persi ted in slight degree

Fi e patients had had two operations and one had had four Four of these now have a metabolic rate w thin the normal limits one has a rate below nor mal and one has a rate above normal

Twenty three patients required three months for recovery twenty one six months and fourteen from one to three years Twenty six patients have slight disability

The author draws the conclusion that hyper thyroidism can be controlled by subtotal thyroid ectomy and that the operation should be performed

Recurrences develop only v ben too much thy rold tissue i left I S MODERY M D

Roger J Acut Po toperati e Toxæmia of Hype thyro dism Wd J & R 19 7 cz vi

T o types of toxemia may follow operation for hyperthyroidism The more common type begins immediately with a rapid pulse fever and restless ness The less common type comes on over a period of days with a gradual rise in the pulse rate and the temperature increasing stupor and at times pha ryngeal paralysis

catalyst for their proper activation. The mechanism is similar to a sy tem of gears which are intermeshed A themical approach to this problem can establish facts which have a definite bearing on the problems of oudation in the animal organism and on hyper thy roidsm and hy pothyroidism

Guthrie D The Present Day Approach to the Patient with Hype thyroldism A J S rg 1027 1 150

Gotter may be classified as exophthalmic and endemic the endemic as diffuse colloid and adeno matous and the adenomatous as quiescent and hy perfunctioning In endemic gotter there is a de ficiency of todine resulting in subnormal delivery of thyrorin and hypothyroidism The frequency of diffuse colloid goiter at puberty and in pregnancy seems due to stimulation of a gland functi nally damaged by exhaustion of this rouin. The intrave nous administration of thyroxin or thyro d feed: g will cause shrinkage of the gland as long as the treatment is continued Medical treatment is ad visable before s rgery except in the cas s of patients over 25 years of age in whom diffuse collo d coiters often contain small adenomata which may be acti vated by todine

Adenomata may be diffuse or encapsulated and may or may not contain colloid. The facts that they may become malignant or substernal and that in time the majority will by perfunct on arestrong arguments for surgical removal. After about eighteen years most adenomata develop hyperfunction. The onset is insidious and the course progressi e result ing in cardiac and renal damage. The re ults of surgers in these cases are immediate. The author believes that iodine aggravates hyperfunction on

adenomata

Exophthalmic goiter occurs earl er in life bas a more rapid course and is associated with ocular changes peculiar nervous phenomena and a terd ency toward crises in addition to the symi toms of hyperthyroidism Lugol's solution is also ated for exophthalmic gotter on the basis of the theory that under intense stimulation the thirtoid is deli ering an incompletely iodized thyroxin The use of Lugol's solution has greatly reduced the mort by and no bidity of the disease Ligation though of value in critical cases is seldom necessary. The author stresses the importance of keeping the patient f om The author knowing the time at which the oper tion is to be performed

Patients with postoperative hyperthyroidism should have absolute quiet morphine and allonal as indicated fluids administered freely Lugol's solu tion for several weeks and ce packs if necessary for fever Digitalis : indicated only f r decompen sation If hamorrhage occu s and there are slarm ing pressure symptoms the clot riult be exp essed immediately

Except in critical cases and those of older pa tients it is better not to limit activity long after the B TO CLARE JR MD operation

End rien kocher von Muelle Curs hman Bauer and Po ges The T eatment of liyer thyroldism (D Beh ndl g des liyerthyr dinu) Med Klin 1976 xw 118 0 / 1917 TXI 1 7 100

A questionnaire regarding the indications and re suits of internal surgical and irradiation theraps in hyperthy roidism was answered by surgeons Enderlen and Locher and by internists von Mueller Cursch mann Bauer and Porces

All agreed that climatic medicinal organoth is pentic and specific mea ures are only at le of lun tel value which cannot be depended upon alone in ad vanced Basedow s disease A permanent cure of hy perthyroids in is obtained by exclusively internal treatment in only a small percents e of cases. Ac cording to Locher some of these cases become cured sp ntaneously Usually improvement is tohowed by

It was agreed also that in fully developed Ba e don s di ease a complete cure is brought about mos quickly by surgery and that when an accepted form of internal treatment does not cau e imp ovement operation should be performed as soon as possible Only Porges mainta ned that internal treatment is more certain though renu ring a longer period of time (two years) Bauer pointed out that in caus treated by internal methods the mortal y i some what higher than the mo tality in case treated surgreatly

The influence of chimate was regarded skeptically by all More important is the effect of compl te boddy and mental tranquility. All of those a swer ing the questionnaire consider a stay at an altitude of from 1 000 to 1 400 meters as ad antageous Enderlen recommends it as pre operati e pr p fa tion Porges recommends a stay at the seashore for the same purpose but Curschmann warns against the latter Chmatotherapy al ne is regarded as suf be ent only in mild h perthyroidism most pat ents have a recurrence of the r symptoms after their return home

Of the various medicaments used Curschmann ecommends arsenic and phosphorus (particular) in the form of recresal) as a supplement to other mea ures I rge recommends e botamin Af er from one to two ye rs of its intermitte t administration he has obse ed the disappearance of all active 3mp toms except the exophthalmor. None of those a swering the questionna e conside od. e a cur ti e a ent for hyperthyroidism Curschmann ould re serve it to the chinical treatment of special cases Bauer and Bauer uses it with knife in hand Ende len recommend todane in the form I Lugol a s lution as used by Plummer for four days before and four days after operation oted f on organo-No defin te results have bee

therapy with thymus arian preparations or i u hin or the spec fic medicaments rodagen and a ti-

thyreodin

Curschmann con iders a d t free f om meat a 1 fat as recommended by Blum of value but doubts roid in juveniles is of the utmost importance and that this problem should be studied by special research with particular regard to improvement of the soline supply for the population

2 It is desirable that research be conducted as soon as po ible on the condition of the capillary system and its relation to enlargements of the thyroid and the forms of idiocy and disturbances

of growth associated with them

3 The question of the iodine supply of man aimais and plants and the fate of iodine in these respecti e organisms should be further investigated in co-operation with representatives of a riculture and industry.

4 Until such time as the results of this research are available solune prophylaxis must be further studied and conducted on a small scale 5 The State Health Council takes notice of the reports and principles presented Although it re

frains from makin a final decision regarding them at the present time it recommend to the Vinnistry of Welfare that these reports and principles be taken into consideration in dealing with the problem

[INSTRAM (Z)]

If me W J An Ep diascop c Demonstration of Chronic Hypertroph c Laryng t s with Some Observations on the Treatment P c R v Soc M d Lo d 19 7 xx 63

In the normal larynx a line formed by a fold of mucous membrane starts from behind the vocal

process of each cord and takes a crescentic course
passing down and and forward immediately below
the process and parallel with the middle third of the
cord
This line is most marked at the vocal process and

This line is most marked at the vocal process and more apparent in males than females

lack) derma lary ngs is more common in males than females. The mucous membrane is mot in timately adherent immediately above and below the fold described. In pachyderma lary ngs the changes in the region of the vocal process are symmetrical and balateral. A warty growth appearing in the region of the vocal processes in the later stages of the condition is not strictly a neoplasm but only a localized hyperplasm or exaggeration of a pre-evisitien structure viz the fold or line of mucous membrane referred to. The adherence of the mucous membrane referred to The adherence of the mucous membrane membrane immediately above and below causes the formation of a furron or depression on each cord.

The production of the voice is not interfered with because by the time the varty condition about the vocal processes is established the cords are no longer on the same plane. The alteration in the plane of the cords may be observed chinically

The condition never becomes malignant Opera tive treatment has its limitations Pachydermia laringis is part of a constitutional condition. It is more important to treat the body as a whole than to treat only the larynx.

HOWARD A MCKNIGHT M D

The intravenous injection of 20 c cm of 2 50 per cent glucose solution usually produces improvement mether type reducing the testlessness and sorting. This dose can be administered two or three times or as often as one and interest the or the control of resilessness becomes are preferable to morphing of resilessness becomes are preferable to morphing.

The thyroid is cloudly associated with the retain of sm of sugar Thyroid feeding in dubetes make the condition worse. In hyperthyroidism associated with glycowars, thyroidectomy is supplied for the glycosars. The dadinatization of thyroid residue subcultaneously or intravenously not only increases the blood sugar but apparently stimulates the vagus rather than the sympathetic terminals and does not accel rate the but of the first of the first

not have this effect. The objective the death from hyperthy road in the gland is almost a solid mass of form g and disintegrating epithelium with alwer'd devoid of colloid and filled with cells and cellular derie is suggested to the author that in these cases the excition though in excess is altered in quality ard in capable of performing its normal function at less to in the nervous system. On the bass of this the ory in the nervous system. On the bass of this the ory he administers thyroid in cases of acute toxermia. This treatment is followed by sho 1%, of the pulse and great improvement in the restlessances and semi

Two cases of towama in which thyroid residue caused immediate marked improvement are reported Pogers gives from o to 30 minims sibcutaneously e ery two hours whenever the pulsereaches too In the slowly developing towama

nothing seems (1 much al e

Theoretically the deteriorated thyroid product of hyperthyroidism plays its rible in sugar ab orpit in superfectly, and the strain of operation exhibits the small sugar reserve in the brain and causes the hip roi to fail tempora it. The administration of thyroid extract seems capable of bridging its 1 gap it it is not too wide. Burroi Causa J. M.D.

Somme feld and Oth ra Mea ures The Should Ba Adopted Against a Spread of Endelling Ba Adopted Against Spread of Endelling Ba Barbard B

In the session of the Viste Meally Courted of June 14, 1936 Sours serged of data reported that the e shad been a considerable interest of the state of the sear He revite of the order of the third of the search of

The results of the adm nistration of accurate dos s of sodine to school children have so far been favor able. As yet however nothing certifus known as to the permanent results of this or the use of tall

sammerled then discussed the occurrace of sodies in nature (invest ations of Chaira set Pollenke and Chaira set C

cause of genter
The enlargement of the thy roul gland is to be ge
graded as an adaptation of the body to a defencer
of sodies as the fol 1 the purpe of which is to improve the fution and tuth at on of the sent quantitates of sodies that are received Adults with degenerative I anges in the thyroid are not sent start or to role than young priors Sommerfell recommend of increasing the sodies content of more proposed to the content of the co

ing to the annual iodine requirements of thee a da

half million people MEANICLE of Lassel reported an increase in the incidence of goiter in mo e than half of the dis tricts of kassel county. In invest gations with the cap flary microscopic method of Mueller and Weiss he found in the cutaneous cap llary system of true hyr othero d cretins the peculiar capillary changes (a chicapillaries neocapillaries and their several stunted subs ricties) that we e first noted by Jaensch in 921 In examinations of a large number of school children by capillars microscops Hoepfner found that every type of injury from go ter can be easily recognized by this in thod Capillary micrescopy permus also an accurate dif ferential diagnos s between the 11 ocy of cretin in and idiocy due to other causes The former can be imi oved by od e whereas the latter cannot

In the discussion in which Grissach Kotar Jacks in Horseva & Zinet Lavir Bluving and Gottstav also took part Lawir reported in the sodice binding captails of the thyroid (occ) sim of sodic to 1 gm of d; thiroid substa et and the stressed doubt is to the daisyability of the present doubt is to the daisyability of the present use of the full with because of the danger of sodice accumulation. If the believes that the administration of a few mail grams of sodice for a period of sevents is sufficient to must tan the sormal wide.

lev l

JAENS H emph sized the importance of adapting
the dos ge of lodi e to the degree of capill y in
hibit n

The folio ing evolutions were dra n up

1 The 5t te il alth Council is convinced that
offic I not ce of the fight sgainst e demic goiler
and of the prevention of enlargements of the thy

Two operations were performed the right side being trated first Considerable difficulty was expensed because of the large amount of scar tissue priested Only 15 in of the recurrent lary night and the recurrent lary night and the recurrent was attable for anastomous and the descendens non zero was even more embedded. The phrenche was a divided through less than half its dume ter and spit prominally the spit portion then being used for end to-end anastomous with the freed portion of the recurrent lary night herve.

The second operation was even more difficult as the amount of scar tissue on the left side vas greater An end to-end anastomosis of the recurrent large all nerve to the phrenic nerve was done but

some degree of tension was unavoidable

Gradual improvement was apparent throughout the period of observation The paralysis of the displainem noted after each stage completely displained to the control of the co

SPINAL CORD AND ITS COVERINGS

Gross K. The Indications and Results of the Surgical T estment of Diseases of the Spinal Cord (I dilat o rau d E gebmsse der h gischen Be handla g n K eck amark kankhet) II med II sk å 1927 | Evru 1 3 4 343 357 4 9

The chief indication for surgical treatment in the use of the spinal cord is compression. The earliest admost coostant signs of compression are neuraligic pans due to initiation of the innerver roots. These vary markedly and do not always indicate the char care and localization of the condition. In the days distinguished the chief the plant of the spinal cord examination of the spinal find obtained by lumber puncture is of great value.

First in importance is the increase in the all bumn content Next is the compression syndrome of Frois (jelly like consistency) of the fined attachedroma). The latter is not absolutely pathog nomone of tumor but is generally a sign of an obstruction to the circulation of the flu d 'typicg riphy should be employed when the chincal diag loss, and the results of spin all puncture at Il leave doubt as to the natu e and level of the condution clausing the synthesis.

The results of the operative treatment of spinal code tumors have been reported by von Ei elsberg as good and with the progress that is being made in early diagnosis are certain to be improved still further.

Resides tumor of the spinal cord persistent pain ful conditions are being treated by operation more frequently in recent years but the problem of the conduction paths of sensation has not yet been en tirely solved. The pathogenesis of the gastric crises of tabes dorsalis is all o unknown Resection of the posterior roots of the spinal nerves by Foerster's method has been the method employed most fre quently For good re ults Foerster s rules must be followed closely The paravertebral injections of Laenen have not met expectations in the crises of tabes. Section of the rami communicantes of the sympathetic nerve recommended by von Gaza re quires further testing The most radical method is chordotomy Foerster recommends this procedure for gastric tabes. All o in other painful conditions and in spastic conditions it is a relatively safe method as it is not followed by permanent disturbances of sensation. It causes only a more or less complete severance of the pain conducting fibers Because of the nationt's wretchedness even a temporary result a goal worthy of attainment. As other methods at present do not give good results further attempts with chordotomy are justified DRUEGG (Z)

SYMPATHETIC NERVES

Langer H Roentgen Rays and the Autonomic Nervous System Am J R Igenol 927 xviii 137

In experiments on cats the author was able to demonstrate by the radiation of solated sympa thetic nerves in the neck and of the vagus that the reentgen ras's exert a paraly ang effect on the sympathetic or para sympathetics. No organic changes could be demonstrated. The paraly zing action can not be demonstrated in radiation treatments because both branches of the autonomic nervous system are influenced. As long as these two systems are in normal balance roentgen or radium effects will not be biologically, demonstrable but as soon as the biologically demonstrable to the part and this is demonstrable both biologically and clinically

The distant and wrongly called stimulating effects of the roentger rays are both best explained by their action on the autonomic nervous system. The author attributes the good results obtained by radiation in thrombo anguits obliterans angua pectors systemsometers and the trophic and circula tory disturbances of poliomyelitis to the depressing action of the treatment on an over urnitated part of the autonomic nervous system and the bringing into balance of its two functions. Benefits that have generally been attributed to stimulation as in asthma exophitalning goiter obiguna in chronic glomerular nephritis and peptic ulcers have the same basis.

Some irritation causes an over irritation of one of the two autonomic nervous systems. A change in chemical consistence results and leads to pathological

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Senduiski) I The Surgical Anatomy of the Fa cial Nerre Canal (De chrugs he Anat mied s Cnlsnicils) Tr dy Seu & k k ; ; ; iin in side allkeinini zy 6;

This report is based on a study of 80 temporal bones from subjects of different ages ranging from embryos to persons 100 years old In addition 200 skulls from the Anatomical Institute of Rostow on the Don and a few clinical cases from the Surgical Faculty Clinic were examined The topo-raphy of the facial nerve canal was studied in gross and microscopic sections

The measurements of twenty three specimens are given The author shows that the length of the canal varies between 4 and 20 mm and does not depend upon sex or the side of the body The chief factors are age and the size of the temporal bone Up to the end of the second decade of life the in crease in the length of the canal occurs chiefly at the

expense of its peripheral portion

The first portion-the labyr athine section-is in close relationship to the labyr nth Therefore suppurate e processes in the internal ear a e occa sionally accompanied by invol ement of the facial nerve Theoretically the penet ation of infection from the tympanic ca ity into the cranial cavity through the portion of the canal lying vithin the petrous portion of the temporal bone is possible The length of this part of the canal is 3 or 4 mm (twenty six measurements)

The second portion-the tympanic section-has a length of o to 1 mm Peculiar ties in the ana tomical structure and topography of this portion of the canal such as (r) the presence of a very thin wall di iding the nerve canal from the tympanic cavity (2) the presence of dehistences in which the mucosa of the tympanic cavity lies immediately next to the perineurium of the facial nerve (3) the presence o er the foramen ovale of an opening th ough which pa s the anastomotic branches of the blood vessels of the facial nerve canal and the tympanic cavity (4) an advanced position of the canal in the tympanic cavity (5) the association of the facial nerve canal with the cochlear process and (6) the associat on of the f cial nerve canal with the laby inth appear to be important factors in the rel tionship of the facial nerve canal and its conte to to the processes which occur in the tym papie cavity The author reports a case of paralysis of the

facial nerve and irritation of the vestibular app ratus caused by increased pre sure with a the facial nerve canal and the labyrinth The evacuation of a ham

orrhagic fluid from the tympanic cavity by para centesis led to rapid and complete cure From an examination of too horizontal sections of

macerated temporal bones the author came to the following concl' stons

In the region of the tympanic sulcus at the level of the middle of the posterior wall the surgeon must operate with as mu h care as if the distance be tween it and the facial nerve canal were only 1 mm 2 Since to a depth of 3 mm the facial nerve canal may be more superficial than the tympan c suicus it is dangerous to approach with the thise closer than 5 mm

3 The length of the posterior lower angle of the external auditory canal cannot be regarded as an exact point of orientation with regard to the posit on of the stylomastoid foramen but as a rule it hes

at the level of the center

The third portion of the facial nerve canal-the mastord portion-extends from the pyramidal proc ess up to the stylomastoid foramen. At maturity its length is from it 5 to 15 mm with an avera e of 13 to 13 5 mm (fifty sections in inenty six of which the bones were taken from persons at years of age and older) The depth of the antrum depends upon the age and the characteristics of the master process and measures on an average to mm. As the trephining of the posterior wall of the external auditory canal is begun at its upper h if it is best in order to prevent penetration of the lympanic cavity not to approach closer to the drum mem brane than about 5 mm as the shortest length of the posterior wall of the auditory canal measures 9 mm

After analyzing the methods of rad, al operation used by btacke and Zaufal and also some atypical methods the author states that in his opimon the method of Stacke is the simplest and technically the easiest Of the methods of exposing the bulb of the jugular vein he gives preference to the operation of Grunert because in order to decrease the danger of injuring the facial nerve canal in its lower portion it is necessary to k ep close to the wall of the KL RIA OV (Z) nigular foramen

Anast most Barne E B and B llance Sir C

of the Recurrent Laryngeal and Phre it Nerr a Some Reco ery of Functi BIMI 227 U 58 This is the report of a case of complete traumatic

di ision of both recurrent laryngeal nerves dunng thy oide tomy The patient was first en by the authors in May 1926 seven months after the operation She was found to have complete paralysis of both vocal cords associated with strider and repeated attacks of cyanosis and dy pnox spoke only in a whisper

SURGERY OF THE CHEST

TRACHEA LUNGS AND PLEURA

Mastics E A Spittler F A and McNamee E P Postoperati e Pulmonary Atelectasis S g 19 7 XV 155 The authors trace pulmonary atelectasis from its first description in 1890 by Pasteur who reported

thirty four cases of postdiphtheritic massive collapse of the lung with paralysis of the diaphragm to our present conception of the condition particularly as a postoperative complication The following four theories have been advanced as to its cause

I Collapse of the lung may be secondary to paralysis of the diaphragm Probably also the accessory respiratory mu cles are affected with re salting collapse of the chest wall

2 It may be the result of diaphragmatic im

mobilization associated with bronchial obstruction the alreolar air being absorbed into the circulating blood 3 It may be secondary to inflammation affecting

the retroperatoneal portion of the diaphragm with resulting d turbance of function of this portion of the diaphragm and the function of the respiratory muscles on the involved side

4 It may be due to vagal stimulation with vaso

motor reaction and bronchiole constriction The authors accept the second of these theories

and tite several points in favor of it. In their opinion the sequence of events is (1) diaphrag matic fatigue (2) diaphragmatic inhibition and (3) bronchial obstruction due to decreased seration and the accumulation of plugs of thick mucus

Pattial or mas ive atelectasi may follow any type of operation on the abdomen and any type of anesthesia. It has been reported also as a sequel to wounds elsewhere than in the abdomen and to in fectious diseases Age is not a factor but males develop the complication three times as frequently as females

The right lower lobe is involved most often Next in decreas ng frequency of involvement are the right lower and middle lobes the left lower lobe the right upper lobe and the left upper lobe

The onset may be sudden or gradual It is characterized by cya os s dyspucea pain or tight ness in the chest a sudden inc ease in the tempera ture pulse and respirat on profuse diaphoresis cough asymmetry of the chest and displacement of the heart and traches toward the affected side

The affected side s smaller and moves but little and the cardiac impulse is displaced towa di that ade Over the affected lung area there is duliness with suppressed breath sounds and diminished vocal and tactile fremitus and no rules Later these signs change

The authors divide the cases into the fulminant moderate latent and evanescent types The con dition may terminate by crisis lysis or complication The most common complication is bronchopneumo

The differential diagnosis is to be made from pulmonary infarction acute dilatation of the heart pleurisy subphrenic abscess pneumothorax and diaphragmatic hernia Roentgen ray evidence is characteristic and positive

The treatment consists in the removal of mucous plugs by the bronchoscope attempts to inflate and aerate the lungs by deep inspiration and possibly the induction of artificial pneumothorax in the

affected side The prognosis is favorable in cases without com plication.

Fifty cases are reviewed The authors believe that 70 per cent of postoperative pulmonary com plications are accounted for by atelectasis or collapse FRANK B BERRY M D

Zaailer The T eatment of Bronchlectasis (Br h ekta e Behandl g) 51 Tag d d itsch Ge f Be hn 927

The exact localization of bronchiectasis was first made possible by the lipiodol method of Forestier The anatomical nature of bronchiectases is as yet not sufficiently known In the treatment this un known factor must be taken into consideration Whenever possible the treatment must be limited to the di eased portion of the lung the normal por tions being left undisturbed Those operations which are associated with the annoying complication of pulmonary fistula should be undertaken only as a very last resort. The requirements are best met by the following series of operations

I Exercise of the phrenic nerve According to French reports this procedure offers the possibility of a permanent clinical cure

Thoracoplasty with extensive resection of the ribs over the diseased area and removal of the periosteum and the intercostal musculature Several permanent clinical cures have been obtained by this treatment

3 Liberation of the diseased lobe from its adhe sions followed by intrapleural tamponade close about and upon the bronchiectatic lobe This is the most successful collapse therapy If it fails opera tions associated with bronchial fistulæ can no longer be avoided

4 Resect on or amputation of the diseased lobe by elastic ligation of the stumps Following the previously mentioned intrapleural tamponade this operation becomes a trivial matter. The portions of the lung which he peripheral to the ligation drop off

of their own accord

function and form The cell in this stage loses con tact with its regulator and cancer formation sets in Proper radiation will often reduce the o er irritated nerve fibers to normal function with a return to normal metabolism and form Prolonged roentgen treatment finally paralyzes both autonomic nervous systems and causes irreparable cell damage Cancer then grows wild

This conception of cancer has led to the following technique in the treatment

I Destruction of the tumor by electrocoagula

tion and dehydration whenever possible 2 Local radiation for its direct action on the cancer cell and its indirect action through the over

uritated nerve fibers The administrat on of three fourths of an erythema dose of roentgen rays to the entire area in

which are situated the paravertebral ganglia which lead to the diseased part of the body CHARLES II HE COCK MD

Bres of E Result in T enty Four Cases of Perfarterial Sympathectomy (Ré ultais de 111gt qu tr cas de ympathect mi pen tenelle) Rev d chi Pr 1927 xlvs 5

The author reports twenty seven sympathec tomies performed on twenty four patients by the method of Leriche Aineteen were humeral and eight were femoral The operation a considered to be without danger as injury to the artery occurred only

once In every case the syndrome emphasized by Leriche-marked contraction of the artery appear ing immediately and advancing with the decertication-was strikingly evident. The vessel shrank to the caliber of a thread appeared empty and did not pulsate. In from three to six days a secondary vasodulatat on succeeded the constricts n

Of three cases of true Raynaud's disease one was completely controlled over a period of sixteen months and one was cured almost completely for three years. In the third a recurrence de eloped

forty seven days after the operation In six cases of asphy rial disturbances of upknown origin which the author believes was a typical Raynaud s disease there were two cures which were followed for seven and fifteen months two definite ameliorations which were followed for five and e ght

months one slight improvement and one failure In callous non syphilitic ulcers which had re s sted all other forms of therapy the base of the les on rapidly cleared and became covered with healthy pink granulations and cicatrication and epidermiz tion progressed quickly leaving a solid

l'evible scar In two cases of delayed union of fractures sym pathectomy led to rapid and satisfactory healing

In two cases of painful amputation stump in which the hyperasthes a was unaic mpanied by trophic disturbances the tre twent fail d LEO M ZIMMERMA MID

the operation is applicable to many cases which nithout it would be honele s

Even though the procedure was reserved for the most refractory cases and poor surgical risks the mortality in forty five cases was only 6 6 per centone death from hamorrhage and to deaths from air embolism. In any large number of cases of this type the mortality vill be high as in about 10 per cent there is associated carcinoma of the lung and in another to per cent cerebral suppuration ensues Thirty one (69 per cent) of the author's patients are now free from symptoms

WHITTEMORE states that all methods of treating chronic bronchopulmonary infection with bronchial dilatation other than radical removal are only pal hative For cases in which more than one lobe of the lung is involved a graded thoracoplasty is the best procedure but when the disea e is limited to one lobe this treatment is only pulliative. Amoutation of a lobe within the pleural cavity has a high mor tality only one of six patients so treated left the hospital alive When a limited amount of lung is to be removed as in chronic abscess near the periphers cautery lobectomy is best

In Whittemore's cases the pleural cavity is opened and the diseased lobe examined to determine the extent of the process and of the adhesions. If the adhesions are firm or extensive it may be unwise to perform a lobectomy If a lobectomy is decided upon sections of a sufficient number of ribs are removed to permit delivery of the diseased part of the lobe from the pleural cavity after di ision of the adhe ions and the pulmonary ligament. The lung is then firmly sutured to the muscles of the chest wall a large gauze sponge is placed beneath the lobe to aid in holding it and a to 20 French catheter is inserted to the root of the lung to collect the pleural secretion The wound is then closed as tightly as poss ble

This operation a accompanied by ery little shock. In about ten days the lobe becomes nec First a dry gangrene is established and then there is a profuse foul discharge After four or five weeks the hole area sloughs off leaving a

clean granulating surface with brouchial f stulæ Fi e cases in which this operation was performed are reported In the two in which a complete re to ery resulted the fistulæ closed spontaneously Whitemore concludes that by his method lobec tomy can be completed in one stage without ex es si e risk MATRCE MET

Mechanical Principles of the

Operati e Treatment of Pulmon ry Tub r Operation of Plant of Yate

Lil enth I II

LILIENTHAL tates that the two important mechanical objects of th su gery of pulmonary tuberculosis are rest and dra age Rest may be temporary or permanent nd may ary in degree

In some cases complete abolishment of lung function Of the extrathoracic methods of treatment those

relating to the phrenic nerve are described

Operations upon the thorax itself are done to cause rest or drainage. The obliteration of pul monary cavities and of di ea ed areas of the pleural sac is described

Pulmonary collarse and compression are aided by the suction pover of negative intrapleural pneu matic tension. This negative pressure cannot oper ate when there is an air passage through the chest wall or when there are large intrapulmonary cavities opening directly to the external air through a large

Method of operation are described and the mechanical principles upon which they are founded are discussed

I ATES states that the purpose of his article is to shor

I Why simple operations performed promptly in proper sequence and in conjunction with other measures will provide all patients not already fa tally affected with e ery opportunity for undelayed recovery or arrest or retardation of their disease

whatever its stage Why neither surgical nor non surgical meas ures alone can meet the therapeutic requirements

3 Hos beneficent operations have been per formed without imposing intolerable burdens upon e en weakened nationts and with only the limited dangers of wound infection hamorrhage throm bosis emboli m and pneumothorax

In the cases of to elve patients twenty nire rib resections with the more or less complete removal of from four to t selve ribs were done All of these patients ere prepared by preliminary paralysis of the haphragm and some of them by blood trans fusi n None has died Two were benefited only temporardy. To o are apparently cured and their blood is n rmal The others are improving and may require no further operation

I ates believes that radical resection of riks per haps including the intercostal muscles can be done vi tually ithout danger if the operation is adapted to the requirements of the particular patient and is performed promptly after the patient has been properly prepared any patients thus treated who v uld otherwise be combined to sanatoria will rec er sufficiently to lead useful lives without en danger ng their associates The following conclus ons are dray n

Improvement of methods of treatment is neces sary if every 1 stient is to be given a full opportunity for u delayed recovery from pleuropulmonary tu berculosis or for prompt arrest or retardation of the pro ress of the di ea e

The basic obligation of treatment which is the promotion of heal ng of the lessons with the least c c trization can be met by improving the quality and increa ing the quantity of blood delivered to the affected lungs restricting the excursors of the 540

The last two methods were shown by photographs and roentgenograms

Each of this series of operations may result in a clinical cure and each prepares for the following one

and renders it less dangerous In conclusion Zaas er refers to the great advan

tage of nitrous oxid anæsthesia in surgery of the lungs He showed a picture of the latest model of the Zaaijer Meisschen nitrous oxide anæsthesia apparatus used at Leiden

In the discuss on of this pap r HEVLE (Dort mund) referred to Beck's report of an explosion which occurred during the use of the Paquelin cau tery with the oxygen ether apparatus Aitrous oxide is safer as it does not form an explosive mixture with oxygen

SAUERBRUCH stated that the operative methods recommended by Zaaijer lead to a cure in only a limited number of cases in the majority it is neces sary to resect the lower lobe STETTINES (Z)

Holloway J & S hlueter S A and Cutler E C The Relation of Immunity to the Experimental P od ction of Abscess of the Lung As Sug 1027 IXXX 1 165

The authors report a small series of experiments upon dogs concerning the part that immunity may play in the production of embolic absce s of the lung These studies dealt first with the general immunity of the animals and second with the virulence and physical properties of the infected emboluclots made both is sites and is sine and infected with a pure culture of bacillus were used

In the first series three dogs were immun zed with varying doses of bacillus coli vaccine and an in fected clot was injected into the external jugular Only one control was used In the three vaccinated does there was a tendency toward localization of the infections as simple septic infarcts with abscess formation

In the second eries twenty four to seventy two hour homologous and autogenous thrombi vere used In the also bacillus ch was the infecting agent The e thrombs were injected into non immu nized dogs The results were rather inconclust e FR NE B BERRY M D

The T atment of Pulmon ty Graham E A Supporation As S # 971 4
Ittemore W The Treatm at of Chronic Whittemore W Suppurati e Bronchiectasis A

GRAHAM discusses the arious measures used in the treatment of chronic pulmonary suppuration and concludes that because of the great var ety of forms of this disease no one method is apple able to all cases Befo e treatment is begon the diagno is should be complete as to the location of the lesion the types of micro organisms causing it and the presence or absence of a fo e gn body malign ney and complications such as brain abserss Pericardi tis and suppuration in the nasal sinuses

Twenty five per cent or more of pulmonary abscesses heal spontaneously These are usually abscesses which drain by rupturing into a large bronchus In many cases even those of several years duration a surprising recovery results after even simple treatment such as artifcial preumothorax the use of neosalvarean for spurchates the correction of nasal suppuration and general

supportive measures Three cardinal principles in the treatment of chronic pulmonary suppuration are drainage cem pression of the lung and extimation of the dives to

Drainage by posture or externally is helpfu in many cases but the efficacy of the bronchoscope as a therapeutic agent in pulmonary suppuration except for the removal of a foreign body is set to be demonstrated

Compression of the lung by artificial preumothorax or thoracoplasty or paralyss of the ma phragm by the acotomy usually do a not effect a cure Diseased tissue which is allowed to reman

may be the source of a recurrence

In chronic rel actory cases it seems d's rabe to remo e the d seased tissue Ordinary lobectory has a high mortality because it exposes large raw surface to infection and the Whittemore pera tion is so table only when the lobe is mobile and

can be brought outside the chest wall Grab m the etore recommends especially for cases with numerous adhesions and multiple abs esses the

method of cauter presmectomy which he first introduced in 1925

In this pro edure the po tion of the lung affected is exposed by the resection of about 4 in of three or four ribs and without any separation of adhes one but with their production if hone ex ists a large area is cau erized numerous pron chial fistulæ being the by formed for massive drainage The ca ty s then packed and not dis tu bed for four or five days Bet een cauterus ions an inter al of at least two or three weeks is allowed to clapse The control of ha morrhage is not difficult

Large vessels are ligated As the blood pressure in the pulm pary arteries is between 20 and 25 mm He coming is easily controlled by parking In 100 e tensi e cauterizations in forty hie cases there was only on fatal hamorrhage This occurred

during the night of the thelith postore atme day

a d c uld have been prevented if the patient bad been more carefully watched The methou described omb nes all of the prin ciples kno n to be enecut e in the treatment of

h onic pulmonary uppuration namely drainage compression ad e i rpation of the dis ased is sue and in Gr ham's op on a more effective than other procedure. The factor chiefly reconsible fo the mortality of lobertomy -supp rati e medi astimit s-is absent There is no e posu e of the mediastinum d phragmat cile a or pencardum an effort s always made to remain within the lorg tissue Because of the complete ab ence of short

SURGERY OF THE ABDOMEN

GASTRO INTESTINAL TRACT

Tisdall F F Poole W W and Brown A 1 yloric Sten is of Infants | J D Cl ld 9 7 x n 180

At the present time there is considerable diver gence of opinion as to whether congenital pyloric steno is should be treated me lically or surgically. The authors believe that the solution to the problem less in a definite diagnosis bet een hypertrophic stenosis and pylorospasm

The cardinal symptoms of hypertrophic pyloric stenosis are projectile vomiting vi ible gastric peri stakss a palpable pyloric tumor constipation and

In pylorospasm the skeletal musculature is hypertonic the vomiting is less of the projectile type the stools are not so small and no tumor of the pylorus is felt

In a series of 1 o cases of hypertrophic pyloric straosis the authors were able to palprite a tumor mass in 92 per cent a percentage considerably higher than that reported by othe. They at though the difference to the inclusion of cases of pyloropasm in some of the other ret orts.

They believe that cases of pylor 'pasm shoul l be considered cases of difficult feeding and treated medically. Cases of the hypert of hic pylone stenosis should be operated upon a on a the diagnosis is established but there hould le close cooperation between the l hysic an and the sur gen

In the 120 cases reviewed by the autho s the Rammstedt operation was done The mo tality was 13 2 per cent I I wo Bi i M D

St John F B The Results of Surg al T eatment of Cac noma f the St mach 1 5 g 19 ? lxx 1 83

The author p esents data on 14 cases of carci in ma of the stomach surgically treated b tween 19 6 and 1936 at the I resby ternal Hospital Ne York Niety seven of the patients were males. Nine pat ents were under 35 years fage. The youngest has 33 years old.

The average duration of symptom durity to the gast ountest at tract manish the shortest period one eck and the longest period three y rs. The loss of weight in taxes a ranged 30 lbs. In to cases no 1 so of weight was recorded hile in the enty two the loss was market.

Pain was a d stinct symptom in (86 pe cent) of the case Repeated om ting o cu red in tog (11 pe cent). In seventy, eight c ses an abdominal mass was palpable

The occurrence of pain vomiting and an abdom anal mass in so high a percentage of cases demon

strates the advanced type of the lession present One hun ired and it enty five of the 140 patients ho were followed were dead within eighteen months Only eleven were alive at the end of four

years
Of thirty two patients subjected to radical resection only eighteen survived the operation. Four tre
alice after four years or less and f veare alive after
five years or more. Of the latter four are free from
symptoms. In all of the other cases either eyilo
ration alone or exploration with some palliative
measure was performed.

While definite conclusions cannot be drawn from such a fe cases it is apparent that earlier diagnosis

is necessary for more favorable results

Manuel C Lichtenstein M D

Paterson H J Hints on the Treatment of Patients
Befo e and After Gastr c Operations 1 1

J M d G S g 9 7 xl 307

Before performing a gastric operation the author keeps the patient in bed for a week. He awoids the admin tration of cathartics by giving highly paraffin In or let to reduce infection and alkalining the urine nothing lut sterile highly and is 30 are given for the odays. Clucos and saline solution are administered by rectum. The abdomen is prepared the day before operation with acctone and 1 percent pieric acid and again at operation 1 th spirit soan and Harrington's solution.

In the transportation of the patient to his room he is kept v arm On his return to bed he is reclad in dry clothes and placed in Fowler's position Continuous proctoclysis with a 3 per cent solution of glucose in saline solution is maintained for at least forty eight hours After ulcer operations diet changes are gradual but patient treated for cancer are fed rapidly When nausea ceases diluted milk is gi en in increas ng amounts up to 2 oz hourly Jelly and Benger a food are added on the second day and egg on the third day After the bowels are open bread and butter custard and junket are given I ollowing gastro enterostomy for ulcer the diet co sists for six months of milk eggs and fish I or nine months meat fruit and starchy foods are avoided Liquid paraff'n is continued after the operation and an enema is given on the fourth day I urgat ves are rarely necessary The patient is kept in bed for four weeks and wears a support for six months

As flatulence is rare drugs are seldom required for the relief of pain but if they are necessary aspi in or trional are preferable to op ates. The author considers stimulants useless in shock the lungs by altering the intrathorance tension and d stroping structures when the irrepraishly diseased 3. This obligation can be met which there the d series is incepient or adia anced by combining rest died fresh air sunshine and dru is with operative meastires far sunshine and dru is with operative meastives (translussions of unmod feel blood the instravenous administration of salf and iglucose solutions the induction of palsy of the displaying resection

of the parieties and partial or complete lobectomy with the cautery).

4. Operative a lyuncts to the non operative methods of treatment applicable whether the dieves is incipient or more advanced are a aliable and lyull meet the therepeate requirements if used in the proper sequence without adding hazards save the inference accidents of more survery.

5 for cessic improvement in the treatm it of pleuropulmonary tuberculosis is assured and will be more rapid of the non-operative and operative measures in the non-operative and operative are developed to cooperate more effect ofly with the natural responses which pro-ids resistant defene and require. Fut CR prisexy MD

CESOPHAGUS AND MEDIASTINUM

loo e I The Pathology of Esophagectasia Bilatation of the Esophagu vithout Anatomi cal Stenosis at the E d is Orlice 1 o E y loc M d Lond 1027 x 1181

Moore demonstrated the folloring specimens of resophagectasts

i D latation of the explasions This period shored oil a moderate degree of testir and data ton. The wills were only slightly thickened. The mooses a samouth and presented in outcertion addressors or cicatrices. Microscopical examination addressors or cicatrices. Microscopical examination adustionucos and als ence of degenerate echanics in the rouscular c ats. The obstruction and hilatation is exerptionally considered to the control of the control of the moderate of the moderate and the tractice and the tractice of the control of the cont

2 D I cation of the croophagus due to cardio spasm. This specimen showed a sl. bt. legree of dilatation throughout. The call was thinned and the

longitud nal folds were obliterated

3 tch trisa of the car is (idiopathic dil tation and his perticiphs) of the crop hards). The upper 5 in portion was of about equ 1 c ther through 1 but below there 1 as a di tinct fusion menlargement. The mu osa 1 as normal exict at the 1 c e end whe e there 1 as a slight ero ion. The musica as

hypertrophied but showed gradual thinning at the dilated portion. Microscope camination of the mid-fle of the specimen re-cited shedding or the cpithelium submitions thickening and fibros and hypertrophy of the muscularis mucosa. The lover can showed complete desquamation of the epithem and attrophy of the muscularis mucosalium and attrophy of the muscularis mucosalium and attrophy of the muscularis mucosalium.

4 tEsophagus with lustform dilatat on The casophagus was greatly dilated but showed a sudd in contraction near the cardia. The muscular coat was

hypertrophied and the mucosa ulcerated 5. Esophagus with dilatation. The esophagus was grossly dilated except in its displacement portion and upper extremity, and formed a fige 5 shaped bend. The muscular cost was hyper trophied. The sac was three times line size or the stomatch.

There ar three varieties or degrees of dilatat on of the essophagus (r) the fusiform which is the rost common (2) the flash or pear shaped which is next in frequency and (3) the S shaped which is the least common

Hypertrophy of the muscular to the usually secondary and compensato y in that eter and varies in degree at different levels of the dilatation. Walt in states that the more marked the dil tation the greater the hypertrophy.

Another specimen demonstrate I was one which showed a transthoracic anastomos s reade between the dilated croop hagus and the fundus o thes made

for stricture at the lower end of the esophagus
In summariza Nicore states that the los of
normal muscul r cont actions and relaxat to may b
due to destruction of the nerv mechan sm of
hurbacks plexus and that some of the degenra
tive changes m y be due to a tong conditio
IRLFRE M D

Jenesbury R C Two Cases of Spasmod! Streture of the (Esophagus P et R S II d Lo d 10 7 2 13

In the two ca es of snasmode stricture of the ecsophagus reported by Jenesbury the condition occurred in children. In a review of the I terature on the crooph gus no smalar cases were found fauthor cases so to cannot changes were disto erred. All that was seen night the asophag scope was the stricture.

In one of the cases the simptoms began when the child was 4 > 3e1 s ld he is now 11 yea s old In both cases the st icture developed rapidly and r sponded rapidly to dilat tion least x till

n etract The withdrawal of blood from the portal ven was done by a modification of the I ondon por tal ven ango tom; and the vithdra val of arterial blood was done from the mu cle brinches of the fromal atter.

The blood was examined as to its albumin content incessured by the refraction indeed; its specific gravity is specific properties of the properties of the reliability of the reliability of the sometic pressure of the intestinal contents were determined. To obtain the plasma occuration and the sometic pressure of the intestinal contents were determined. To obtain the plasma occur oblood where taken from both the artery and the portal ten. To present loss of carbon choused have assumed the was asparted under oil and a semantiamed in an unoughized state by the add tion of sodium untite I in add ton o com were taken from b the artern and the portal vein and immediately fedinated. Will letermination were made within

In preimntary experiments it hal been deter unded that the fetterno of the ammal and the local are the is had no noticeable effect up in the blo of usar others. The physiological variations of the factor determined vere changed by the vario phases of digestion in his hit vi no case did they are the presentation of the presentation of the secret did a notice the presentation of the presentation of these preliminary experiments the intestinal con

twenty f ur hour

tents were al ays found hypertonic a d aci! With the depletion of water from thir t the e wa an inc ea e of the erum albumin content associated with a slight increase in visco ity. The osmotic pres su e merea ed considerably and the non coagulable nitrogenous substances (residual nitrogen determi nation) were increased markedly (increased destruc tior of albumin with insufficient excretion) Acidosi beran even before the increase in the residual nitrogen This thirst type was partly accentuate i by the intravenous infu on of a hypertonic (lauber salt solution which quickly with fra s vat an i partly di spated by the dilution of the bloot When vene sect on was added the de eloping the rst picture was interrupted

The lens experiments were conducted by lighton of one of the upper loops of the jejunum than umblucat tape under local anaxythesa: In several experiments a coul of intestine 15 m lon as shunted out by double lightion

The finding of the blood e amination are shown, tables. The regular changes are sho in the curves (secondin to Schade). When the e curv are compared with the shots in 1 in the thirst picture it is pared with the shots in 1 in additin a to the los of a ter which the short in additin a to the los of a ter which the short in the sh

Weeks A and Delprat G D Intussusception

A h Ped t 1927 xl v 469

Intussusception is es entially a condition of in

finey The ages of fourteen patients whose cases are reviewed by the authors ranged from 4 to 12 months. Ame of the patients were males

The causes of intussuception are mechanical and on amic When a foreign body such as a mucous poly por worms becomes attached to the intestinal all the pull of pert takin action tends to invert the point of its attachment. Hypertrophic hymphod tissue which is know it to be quite extensive in in fancy, may also act as a foreign body. With variations in the tone or systicity of themtestine a highly contracted portion may be forced into an adjacent atomic portion by hyperpensial is

Intussusception may occur in any portion of the intestine. In eleven of the fourteen cases reviewed the condition vas ileocarcal and in three it was teric. The greater frequency of intussusception in

ters: The greater frequency of influssusception in the ileocaccal region as compare! I that is occurrence in other locations is explained by the sudden change in the size of the intestinal lumen in the ileocacal region a lich facilitates telescoping.

Intussu ceptions followed by constriction venous stass: or lema s elling strangulation necrosis and gr grene. The mass his a peculiar blush sheen. It is firm to the touch and curved on itself because of its mesenteric uttachments. The engregment of the mucosa which occurs early produces a bloody

The simptoms usually occur in a previously healthy third and are typical. A sudden shriek due to prins followed quickly by pallor. The child their prins followed quickly by pallor. The child their prinsers of the support of the prinsers of the support of the prinsers of the support of the s

The treatment is surgical unless the nation is seen early and the intussivesption is located in the colon where it may be possible by d stention of the ole with vater or air to effect its reduction. If e eral days he estapsed since the onset of the condition achievous will have for med rendering reduction to the condition of th

The op rati e incision varies with the location but usually a long right rectus incision will give ample exposure

The topo tions of the intestine hould not be pulled apart. If the intrussuscipiens is gently milked about the he dof the intussusciption the inner portion will move up rapidly and the mass can usually be drawn out of the abdomen and handled more c sly. As the edematous head of the intus ususciption.

best treatment is proctoclysis the application of heat and the injection of pituitra. He uses chlorodyne for post anosthetic comming and recommends routine breathing exercises to red are the likelihood of lung complications. Auch fallation of the stomach requires prompter static lavage.

Gliessner K and Ettinger D Clinical Iollow Up Afte Gastric Operations (kind che N ch n tersu hu g n bet Mag penette) A ch f l n da meth a kk 192 [33]

The treatment of gastne where is a fiell contested by internsts and urgeons. Therefore it is necessary, to invests the in detail those not rare cases sary, to invests the in detail those not rare cases in which after a gaste coperation in the pre-operation disturbances per ist or new disturbances developed the field of the properation. The following polythesis of the greatest importance. The authors recriming stateon patients who vere historia field in the results of operation. There had I entreated by gastrocateroutiony and thritten by resection. The studchteroutiony and thritten by resection. The stud-

enterotiony and thirteen by resection. The study as made with regard to the h tory, the character of the gastre muce during the lasting state an 1 after a test breakfast the pre-ence of blood in the stools the increaseopic findings in the gat trie muce the results of the neutral red test 1.1 the Glas sher Wittegastein method and the results an hunss

Inspection of the man her bettered in high procession of the postoperatus condition as a characterisation the postoperatus condition as a characterisated by symptoms of ulcer or hyperactinnaises at rooming one half bour after meals have secretion and hyperact lary but sometimes normal and values and the occus and presence of blood in the stool. On X ray examination a sport priful of the stool. On X ray examination a sport priful of its and the occus and presence of bound and in all cases there was a definite re-like. The content that there is a meal of the transformer of the processing of the properties of the prosence of the transformer of an olduloce or an ulcer of the pignum. The operations were performed in 1 rots; 1019 and 10 o

In the thirte is cases of received the operations were performed in it is person between 1000 at 16 y 5 by the full footh II. Noron in and Vikiali came book offer on the pricent's was free from disturbances. The rest complained of the blee less than the state of the pricent's and the state of the state

In conclusion the authors emphasize that gastroenterostomy does not change the d sposition to alterformat on The re lits of exection a e bette. The difficulties in cases treated by resection as explained by the small stomach and regur intuion too much mucosa has bean removed and the musculary at the stomach has been anymed Only the prome at the stomach abone naymed Only the prome at the stomach contains, the secretary sell-shed? by remove! The patrical shows see Arr rawing descloped postoperatine of studencers mere of the fact that the operations were profused by a large one. It is necessary to dreve a method of operation that of it is remove the unlear and madition only it excretant portion of the tomach which can be determined reactly by the metrial relies to

Brockman R St L Tle To zmia of Acute In testinal Ol struction La 1 1927 C x 13

Brockman states that in spite of the ad ances mad in surgery the bije caue of il us is it unknown. The rijo theories hind in most favor to day respectively attribute the condition to the action of bacteria and the toxic elemental obstruction that the found.

The act on of bacteria in the production of a rucan be explained only on the basis of altered ply a clorical action of the intestice probably of the busco a

With re and to the action of the to e fluid in tieus it was proved in reprintents so animals that when such fluid from an a small with them has in speciel viet e. oo. by tooks another assimal it produced the tame as writtens of ob tire to as a sertendent in the form of the state of the state of the body of the state of the state of the state of the took and the state of the state of the state of the took and the state of the sta

chinical cases of sleus

On the bwas I the a samption that to counter actives belte must be brought freely intercenter in the mesons of the lower bowel Bro-liman treated care of a plattic of as by credit maintained by the man bile diduted with normal soline solution like reports the rices und cause in which I II wing he treatment the symptoms of active deep subsidied When earn is we enabled the results after all subsidiers of the vomining discussion of the contract of the same of the country as a present in which the same dieter as he man bile Or gail did not he have the same effect as h man bile.

Habir G. In estification on the Madewater Park to force of Experimental Societation the Small Intesting of Experimental Societation the Small Intesting Parts | International Conference of the Parts | Intern

Experimental n est gat ons nere conducted on thirty s ven dogs to determine what than exocur in the blood in intestinal occlusion especially in its passag through the cap llarnes of the inju ed diges

Rosenthal P The Simultaneous Occurrence of Duodenal Ulcer and D verticulum with a Report of Two Cases (Ueber das gleichzet e orkommen von Ulcus und Divert Lel am Duode num m Anschluss an zwei ei ene Faelle) d Gr tbf Md u Clr q2 xl 131

Reports of the last year show that diverticula of the duodenum are not as rare as was formerly supposed They cause no particular clinical symp toms but are of practical importance because of the

simultaneous occurrence of ulcer formation The author reports two cases in which with one or several ulcers there was present behind the pyloru a

diverticulum including all of the walls of the intestine With the exception of certain congenital forma tions the development of diverticula is explained by pulsion and the change in the intestinal wall associate I with the healing of ulcers When the surgeon finds a diverticulum at operation he should

search for an ulcer in the vicinity Typical roentgen pictures of diverticula near ulcers have not yet been obtained BRINER (Z)

Stetten Dell Balloon ng of the I eft Lo er Ab dominal Qu drant as an Early S in in Pe for ated Duoden I Ulcer W th Observations on the Ch racteristic Spre d of Rig d ty in Acute Ab dominal Lesions 1 J 11 5 19 7 lt.

The article is a report of a case of perforated duodenal ulcer with ballooning in the left lo er abdominal quadrant as one of the early signs. The pre operative diagnosis was confirmed at operation The patient a man 47 years of age gave a hi tors

of chronic hyperacidity and gastric disturbances and sudden development of acute abdominal pain th comiting and distention in the left lower quadrant of the abdomen \isible peristalsis was questionable. The right upper quadrant had a board like rigidity and live dullness was dimin ished The distention in the left lower quadrant was explained by seepage from the perforation v hich caused muscle spasm that forced the intestinal con tents to this region which is the last to become in vol ed by rigidity This s gu is ariable and often missed It may aid in the placing of the incision Perforating lesions elsewhere in the abdomen are

discu sed from the standpoint of ballooning CO HEIM L MD

Le cuf J Pe foration of Postoperati Jejun I Ulcers int the Free Pe itoneal Ca ity (La p forato en pértoi elb de ulè p×t pért dujjn m) Rcd à Pr 97 xl

Le cut reports a case of free perforation of a gastrojejunal ulcer occurring fi e and one half y ars after posterior gastro enterostomy for pylonic ulcer The lesson was resected together w th a cone shaped portion of the stomach and a 1 anast mosis w s made The pvl rus was tempo arrly occluded with a catgut suture and the abd men closed without drain ge Recovery was delayed by a persistent h cough of five days duration an I by threatened

thrombophlebitis On one occasion there was some r turn of the pain but this has now entirely ceased and gastric motility and chemistry are satisfactors

The author reviews thirty four cases of free per foration of postoperative jejunal ulcers twenty nine of which have been reported previously. He places the incidence of jejunal ulcir after gastro enteros tomy at from to 4 per cent About one in four of such ulcers perforates. Of the ulcers in the cases reviewed fiteen occurred after an anterior gastroenterostomy eleven after a posterior gastro enter ostomy three after a 1 anastomosi and two after a Billroth II resection The interval range I from two days to thirteen years In twenty six cases a single ulcer was found and in eight there were mul tiple ulcers The latter group should be considered apart as they represent for the most part ulcers due to operative trauma of the jejunum and are not strictly speaking peptic ulcers This type is very prone to perforate early Five of the eight reviewed perforate I within two months after the operation

The solitary ulcer is a true peptic ulcer and due largely to e po ure of the jejunal mucosa to the stritating ga tric contents. Other causes are dilata tion of the efferent jejunal loop too long a loop tor ion causing interference with the circulation and mechanical trauma from the gastric contents

Jejunal ulcers are as a rule recent ulcers and may readily perforate without prodromal symptoms. Ul cers occurri g at the site of the anastomosis are more chronic and call us and more frequently give rise to prodromal signs for a considerable time before perforation Of the eighteen cases of the former type h ch are reviewed the perforation was discovered at autop ; in nine Of the eight cases of the latter type a correct clinical diagnosi was made in seven

Repeated operation was necessary in two cases making a total of mineteen operations Seventeen of the operations were for a single ulcer There were two deaths

Early operation improves the prognosis Of the patients who survived only one vas treated by re The treatment of the others was simple A second perforation occurred in two cases in which the fesion was merely turned in and sutured Only two patients with multiple ulcers were oper ated upon Both died although the operation was performed early In both of these cases the perfora tion was sutured over and the ulceration subse quently extended to involve the line of suture. In such cases resection should be done in order that the suture may be placed in healthy tissue
Leo V Zinnermi VI D

Pe thes The Abdomino acral Operat on for High Ca cinoma of the Rectum with Preservation of the Splincter (Abdom: o k ! Operat on hoch t d k tum n me m t Erhaltung des mu kel) 51 T g d d 15ch G f Ch Schl

The advantages of the combined method of operat ing in carcinoma of the rectum are clearly evident tum reaches the neck of the intussuscipiens special care is necessary to prevent tears and breaks in the serosa The inner portion will appear dark and con gested If its color does not improve and peristaltic waves do not pass through it after it has be " wrapped in a warm tot el for a fet minutes resection of this portion with end to-end or lateral anas tomosis should be done

In the cases reviewed there were two deaths both due to the fact that the condition I ad been present three or four days when treatment was given ROBERT M CARRE M D

Wood R II and Pena S S Tumors of the Small Intestine-Report of a Cas of Adenocarci noma I g all II nih 1927 1 v 202

The majority of tumors of the gastro-intestinal tract o cur in the stomach and colon but the small

intestine is al o ometim a invaded The benign tumors include the adenoma lipoma myoma and fib oma Most of the pedunculated

tumors classified as polyps are ad nomat us The malignant tumors are care noma and sar coma Sarcoma occurs more frequently than caret noma All types of sarcoma are found but the lymphosarcoma is the most common Sarcoma may occur at any age. It begins in the submucosa or muscularis. As a rule the mucosa is intact, but in some case it may be ulcerated through Crossly sarcomata are softer than carcinomata and often contain minute areas of necrosis su gesting tal r culosis

The small intestine is remarkably free from car Judd found only tyenty four cases of cinoma carcinoma of the small intestine during a perio I when 1 822 cases of care noma of the colon and rectum and t 6% cases of carcinoma of the stomach vere seen The duadenum is involved more frequently than any other portion of the small it testine. In this region carcinoma occurs follo ving ulcer. It may de elop also at the ampulla of Vater It is least common in the third portion of the duodenum

In the jejupum and ileum carcinoma occurs m st frequently in a desenerated pedunculated adenoma and less often in the form of an annular neoplasm

Metastasis is not common

The diagnosis is difficult Benign tumors may cause no symptoms until intussuscept on occurs In cases of malignant tumors there may be a loss of wer ht and strength blood in the stool alteriat ing diarrhora and constipation and recurrent attacks of obstruction with omiting cramp-like pain distention and audib e rumbling. If the am pulla is involved jaundice may be present. The

In early cases resection may prolong hie but in th majority only ente ostomy or \ ray therany is

po s ble

The authors repot the case of a noman 44 years of age who c implained of poor appetite i disestion and constitution of two years duration Symptom of chronic obstruction were present and a soft

movabl mass was found in the left sid of the abdomen Lxamination of the blood revealed a mole at anymia The bloo i Rassermann reaction was positive Anti syph li treatment was given but failed to cause improvement and the patient ded after one month in the hospital

Autopsy revealed a mas the size of a bir e grapefruit involving the jejunum and nine smaler masses involving various portions of the small bowel. The pathological diagnosis was primare multiple adenocarci ioms of the small bone

I EDRARD PISTEON MD

Gray I Duodenal Ulcer Symptom Complex in Patients Not Ha ing Ulcer J Am If 4 19 7 1 4 4 676

In one third of 50 cases presenting the clim al syndrome of duodenal ulcer the symptoms re found to be due to refl x stimuli While it is general ly acknowled ed that the history is of the greatest importance in cas s of duodenal ulcer the diagnosis cannot be bas d on the hi tory alone Aisceral rain has a definite relationship to visc ral function a d ext resses per er ion of activity rather than structural disease. In the case, reviewed the causes t spon ible for the ulcer syndrome we e tobacco smokin in 41 i per cent chroni gall blaller diease with or without stones in 23 I per cent con stitutional conditions (vag ampat) cotonia neurosis) in 18 , per cent ch onic append cons in 8 7 per cent and miscellaneous conditions such a port one ative adhesi as c lonic disturbances enga

trie hern a and sychilis in 8 4 per cent The fact that reiler stimulate a rather than local disease was re por thi for the ulcer syndrome in these cases as estable bed by the follo ing ob-

servations

Treatment di ceted toward the underlying condition gave rehef I epeated roentgen ray examinations were

negati e 3 There was continue I absence of blood from the stools

A Freedom from symptoms was noted for a penod

of from one to three years

Pelorospasm was present in 81 percent of the cases In those of patients who were tobacco users it was present 7 90 pe cent and in those of patients with gall bladder conditions it was present in 82 per cent It was independent of the gastric scidity and was present in se eral cases showing achylia

Gray is of the opinion that while careful con siderate n of the history is of great importance a diag osis (reicularly in diseases of the gastrointestinal tract g eater care nust be taken in the interpr tation of the symptoms. However strike & th sy drome of duodenal ulcer the diagnos a musbe confirm 1 by \ ray examination

Remo al of the foct of infection a d treatment ! th unde lying ause of th reflex gastric phen mena of the gastric complin ts. will cure a great ma

HER UP & Mck. CHT M.D.

formations in this region but of very restricted

As a result of the failure of the two hollow organs to fuse into one there may be a the mucocutaneou juncture of the thereton and anus an imperforate membrane the membrane with a small opening in the two that damphragm type a membrane with a birger higher than the opening is the creaming the control of th

There are reports all o of tubular or cylindrical constrictions of greater len thin which either the mesenterion or the proctodeum fail to develop completely. In these the halls are more rigid and contual of the layers of the bowel. In some cases, Houston's values have been regarded as the cause of obstruction. However, McKeiter TMD.

LIVER GALL BLADDER PANCREAS AND SPLEEN

Ca to on A Dodek S M and Gordon B Calcium Studes in Jaund ce w th Special Refe ence to the Effect of P rathyro d E tract n the Distribution of Calcium 1 & I t 3 d 9 7 d 19

The authors show that there is a wide variation in the calcium content of whole blood in jaund ce as compared with that of normal blood. Wite the administration of 15 units of parathy roof extract the variation is altered so th t at the end of twelve bount the calcium content of the blood of jaund ced persons correspond almo teracth to that of normal persons treated in the same manner. The conclusion of the content of the

kappis M and Fulde E The Indications for Su gerv in Jaundice (De An g st ll g d Chru g n b i d G lb ht D i h m d ll ch k 19 7 l 391

In obstruction due to stone comparatively ea ly operation is the proper procedure If fever and ch lis persist without any tendency to subside operation is best performed on the third or fourth d's after the appearance of the jaundace. If the obstruction is compete but without fee operation should not be defased longer than two weeks as the hier soon becomes so injured that among other disturbances there is daager of cholerance harmorrhages. In cases of internitient or incomplete obstruct on without sample tations it is well to operate in the four weeks with the onset of the jaundace in possible at a time when the properties of the sunder in possible at a time free conset of the jaundace in least marked. In cases of jaun the cutted by stone a properly timed operation is declared by stone a properly timed operation.

of importance also becau e the permanent results of surgical treatment may be influenced by too long delay

The earliest operatio 1 indicated by obstruction due to tumor 1n such cases an exploratory opera tion is often necessary. Radical operation is indicated by faioribily located carcinoma of the hepatic or common duct and of the pupills of Vater. When ever possible the operation should be performed in one stage. Fiternal drainage of the bile is definitely to be con lemmed. Carcinoma of the bile passages 1 a very serious condition but early operation improves the prognosi

In e largement of the liver 1 sth jaundice a posi tive lagnosi is essential. Often an exploratory operation cannot be avoided

The indication for operation in cholangeits is die termined from the temperature and the leucocyte and hacterial content of the bile removed by the diodenal tube. In operations in which the bile is shunted inward caution is necessary because in being ob tructions the prisages will probabily open aga is spontaneously and the anistomosis may then act as a pathway for infection.

When the fin ling of palpation suggest a tumor of the papilla the diagno is is be t made by trans duo lenal i beration and spl time of the papilla

The author consider biopsy on the liver a haz ardous procedure Colles (Z)

Sala R A Fatal Hemoperitoneum from Ulear ation of a Latent F imary Cancer of the Liver (Empe t m t lepe lea on diun cancro |r tt late t d l legul) Pld Rom | o vx se pat 8%

In the case reported the diagnosi of hæmoperi toneum as based on the presence of periumbiheal exchimoses (Cullen's sign) and the findings of an exploratory puncture. At operation 7 liters of bloods effusion and numerous clots were removed. The source of the hæmorrhage could not be located.

Autopas revealed an endothehoma evidently of perportal engine which had produced enormous en la gement and deformity of the liver. There were two caushidower ulcerations 5 and 0 5 cm in diameter respectively. The growth had destroyed meanly two-third of the organ, The left bolt was reduced to a mere appendage of normal tissue. In spite of these changes the patient is farm hand had felt well and had been doing heavy manual labor until a little more than a month previous

MINA A CILDERSLEEVE

Beggiato U A Case of P Imary Myxosa coma of the Li e Simulat ng Hepatic Abscess (U cas d mi a ma primit o d li f gato a sintomatolig d asc epati o) P lui Rome 19 7 mly se p at 85,

Beggiato's patient a girl 6 years of age was first treated for gastro-ententi her initial symptoms being digestive disturbances accompanied by head ache and vague abdominal pain. Later persistent The superior hamorphodal artry can be ligated at the right point and a better town of the operative field is obtained. In some cases that appear to be in operable a good operation can be performed. The formation of a durable pelver floor is possible. If a muss must be formed it is better itsusted on the amus must be formed it is better itsusted on the nity in the contract of the

contra indicated The chief question in the us of Lirschner's com bined method is whether an amputation should al ways be done or whether I hen possible resection may be performed The objection to resection that the sphincter is damaged and there is more danger of recurrence is not valid. Several patients treated by this method at the Tuebingen clinic have been free from recurrence for as long as five years There fore Perthes still advocates the resection method and has extended it. He begins the operation by expos ing the rectum from belo by Voelcker's method The muscles are spared as much as possible obtain a better approach only the coceyx is removed The middle hamorrhoidal artery is ligated After expo ure of the tumor two guide sutures are attached to the rectum. The second stage of the

operation then follows:
With the patient on his back the abdomen is opened and the filterite mobilized to the fullest or tent. After exposure of the rection on both desithe decision is made as to whether the case is suitable for resection or whether amputation should be done After resection the two stumps lie sude by side of the resection of the transition story and when possible the intestine is drawn through and when possible the intestine is drawn through and feture does not appear to be well enough normalied feture does not appear to be well enough normalied and the rectum. The end of the flexities is then brought out and after greather and as a cut off and closure.

out and after eighteen days is cut off and closed

In the discussion of this report I UETTREP
stated that in his opinion this method represents an

important achie ement FINSTERER (Sienna) emphasized that the abdom inosacral method has so high a mortality becau e it is an operation of necessity. He believes is death rate will be decreased when it becomes an operation of choice The chief causes of death are shock and infection To obviate the first spinal and extended sacral anxisthesia should be substituted for general anasthesia. To prevent infection Finsterer does a colostomy on the transverse colon a neel p eviously He begins the operation with a laparotom) and then lays the patient on hi side and continues from below Circular suture of the two extremities is to be avoided as it is always associated with fistula form tion However the method in which the sigmo d is drawn through the rectum also has its disad arta s as the sphincter is stretched too much by the drawn through sigmoid Finsterer is a stron ad ocate of

the abdominosacral method but only for ca n high the carcinoma is a trated high Recur ences

are rare

LIESCUMER (Knenigberg) referred to his address before the Congress of the previous zera in shach be set forth the advantes of rectal amputation is certain cases for person attended the set forth the advantes the median line deleved has divided the latter in the median line deleved that divided the latter in the median fine deleved to and advanted to accomplete forth and though the description of the description of the deleved that there are certain the set of the deleved that there are certain the deleved that the deleved the deleved that the deleved that the deleved the deleved that the

MISSEL (Constance) als heleves that the abdominal merbods an dream able for a turby-rideal operation. However, the procedure used must be adapted to the requirements of the paracular case. Occasionally it appears that the limits of the tume may be easily aplayted from below but later it is discovered that it e tends up to the Beture. There are cause also in which only the ablormal rote to

possible HARRER (Cruz) like se prefers the shd mas streal method. Vs a mile the question as to whether a carrinoma of the return is operable can be decaded only from above. Haberer berns the operation from bethe soft of the distribution of the control of the control of the control of strength of gause saturated with I regl solution and leave it in place for a considerable time.

Mosekowicz (Lienna) mentioned that for some cases an abdom no anal procedure is suitable

B nnemann J Simple Congenital An extal Stricture with Mega of n in Early Inf ncy Report of Six Ca es J Am 11 1 927 hxx

The author rejorts as case of simple on entil anorectal structure in infant which was associated with abdominal distention distent on of the color obstit at constitution and evidence of great distress. In most of the cases vomuting occurred, in some of them coils of a testine and increased pet sit lass could be seen. In all of them there as appar ntly a sharp short form construction, you also be the anal sph neter. In all of them there are considered for any long them to the construction, and the construction of the cons

These congenital anorectal stricture appear to be take to an arrest of embry ounce development. The hollow decrending me enternour rectum app really inside to the completely with the a cend ag toward epiblishts in guanton or proof d um which forms the amost if an addition the us ogenital resolution that the sense is to the amost if an addition the use openital we bette fails it separat in ge to unnary tract from the cum of any uniteresting the sense of the

also examed microscopically In every case the microscopic examination shose I the picture of an infaminatory process around the gall bladder. The fall bladder was frequently embedded in old or recei addes ons. The gall bladder usually showed to charge in shape but its circumference was some hat enlarged. In the majority of cases the costs duck was constincted this accounting for the port emptying power of the gall bladder. In such costs it is noted that during operation the gall bladder remains well filled and can be empited only with disticult. Nat a rule the vall of the gall bladder is somewhat thickned and the contents of the gall bladder consist of a tenacious bladder bladder of a tenacious bladder bladder of a tenacious bladder bladder of the contents of the gall bladder consist of a tenacious bladder bladder of the contents of the gall content of the gall bladder consist of a tenacious bladder bladder of the contents of the gall content of the gall the gall of the gall bladder of the contents of the gall content of the gall the gall of the gall bladder of of the gall

Microsconically there was always the nicture of a more or less pronounced inflammators, proces t ssue of the mucous membrane was markedly in filtrated by small connective tissue cell filtration was either diffu e or localized around the blood ve sel The villi of the mucou membrane were hypertrophic an i in places there were polypoid proliferations of the muco a The niches lying between the villa ometimes penetrated into the mass of the muscular layer which seemed to cor re pond to an extensive neoformation of ducts The epithelial layer was well preserved in only some of the cases In some of the necrotic areas calcium salts were deposited. In a number of cases the epithelium hal been extensively destroyed. The f rm of the ep thehal cells varied being sometimes cylin incal sometimes low and almost cubical As g blet shaped cells were also found a mucous meta plasta of the gall bladder epithelium occurred in some ea es The appearance of mucous glands is to be con idered the result of an inflammatory proce s The mu cular layer was hypertrophic In the tunica fibrosa and subserosa inflammatory infiltrations ere found. In addition the connective tis ue wa abun lantly developed. The serosa was thicken d

about an addition the connective its ut wa about hailly developed. The serost was thicken de pecully in the cases in which a pericholecy sitis as evident macroscopically. In agreement with the previous in estimations of

In agreement with the previous in estigations of letter and Winkler the author of a as found the partner of interstitud hepatitis of the her. The testimes of interstitud hepatitis of the her. The distinguishment of the Anges were located in the persportal formation of the process of the state of the process of the state of the process of the state of the

In half of the cases the ext roated poen ha was

first which of the two inflammators processes—the appendicties or cholecystitis—was the older. In a series of cases the vall of the appendix showed the signs of old inflammatory processes. From a comparison of the changes in the wall of the gall bladder and in the appendix the author came to the conclusion that the inflammatory process in the appendix was usually considerable older than that in the gall bladder. Sciurzer (2)

Fettich G A Clinically Observed and Operatively Cured Case of Cholecystilis or Cholangelits typlosa (Kli ch b chetter und perat ge h ltc F ll a Cholecystis bær Ch la gitts typosa) Gjøgt I 1027 [tru 208]

This article reports the case of an 18 year old grit who for fifteen years had had attacks of chills and high fever with severe pain in the right half of the addomen and jundice. Recovery resulted after four weeks. \ cel. before the patient was seen by the author she had another attack. The epigastrium on the right side was painful and contracted and the splern was somewhat enlarged upward. The urine contained bilding pigment erythrocytes and easts. The Widdl te it was positive. The Gaffley Eberth bacillus was isolated repeatedly from the stools but not from the blood.

The feer cas ed after four vecks and three weeks later the princip left the ho pital Two weeks later the condition recurred. Operation revealed a third wailed gall birdder the size of an apple which contained so eral lentil sized stones. Small stones which contained so eral lentil sized stones. Small stones will drain agree of the hepatic duct choice, steetomy and drainage of the hepatic duct were done. Typhoni bacilib were cultivared from the contents of the gail bladder and from the bile drained from the hepatic duction in the walls of the gail bladder. So month is found in the walls of the gail badder. No typhond bacilli have since been found in the souls of the sail stool.

The author is of the opinion that the cholecy stitis and cholangeits were not complications of the typhoid but vere primary conditions caused by the Gaffky Fberth bacillus

Maxat (Z)

Jorns G The Regeneration Processes in Free Transplants of Pancreas (Ueber d Regen a t s orgae g in frei P kr str nsplant ten) B i kl Ck 19 7 cxxx in 632

Thenty three transplants of pancreas in adult rabbits here e amined on the second third fourth fifth secenth eighth tenth eleventh fourteenth twentieth twenty second and thirty third days

The operations were performed when the animals were in a fasting state. Pieces of pancreas the size of the head of a pin were tran planted under the usual precaut ons for asepsis into subcutaneous pockets previously made at a distance from the liparotomy woun! The transplants were usually examined in scral sections.

Up to the tenth day after the operation the trans plants showed an intrease in size They appeared fever an I localization of the pain and tumefaction in the right hypochondrium II of the diagnosis of hepatic abscess. At laparotomy the liver's as found to have a necroite appearance. Brown in fluid mixed with blood was present but there was no intered or put if autopys a tumor the size of a large of the property of

VINA L. CILDE LEEST

Miller R T Jr Benign Stricture of the Bile

Ducts in Su g 19 lxx 1 19/

The author prescuts the histories of three cases

of bean a stricture of the extrahepatic ducts. At operation in each case the common duct was found markedly thickened along its entire length f-prioration of the dact about the lumen to be almost completely obliterated. The gall bladder wall also was thickened but the viscus was filled with bile and was free from rull stones.

Benign stricture of the extrahepati ducts may be congenital or acquired. The most common congenital stricture is found at the ampulla. The cause of congenital strictures is unknown buch strictures are found in infants usually at autopsy and lonly

rately in adults

Acquired strictures may be of traumatic or fiammatory origing. Traumatic strictures commonly arise following the removal of common duct stores or injuries to the duct produced during efforts to control hemorrhage when the operative field is not collect. Infiammatory strictures are usually, due to gill stones which in their progress through the common duct produced abrasions of the mucous membran. In such cases ulters develop and heal and the stricture results from contraction of the resulting the sufficient scar tissue. Infiammatory strictures are usually well crumserized and limited to a portion guidally well crumserized and limited to a portion

of the diect Complete fibrosis of the common duct along its entire length may be recarded as a third form of acquired stricture. While no one cause has been established as yet the fibrosis is believed by some to be the result of an infectious cholargeties or mineral the recognition of the common duct. The programs are those of common duct the programs are those of common duct as the common duct is exceeded below the deposition of the common duct of the common duct is exceeded below the common duct as the support of the common duct is exceeded by the common duct in the common duct in the common duct is exceeded by the common duct in the common duct in

MANUEL E LICHTE STEL M D

Ross S G A Study of Bile Secreti n From a Ca of Biliary Fistula J Lab & Cl 41 d 9 7 xii

In the case of a man 56 years of age who as admitted to the hospital in an inte selv jaunuleed and weakened condition the author had an usu ust opportunity to make a study of the bile secret on The patient had undergone two operations the first

seven years previously for the excision of a g store ulcer with severe hæmorthage and the second nan months previously for acute intestinal obstruction

caused by adhesions around the upper small interior. The jaun his devictoped soon sitter the second oper at on and had progressively increased until the him became deeply broaze? The also after the practical admission to the hospital the abdominal early us upper right quadrant. The common sections had encountily calarged. No gall bladder was found from a pulled of the abdominal early admission sand would not permit the passage of a fine probe into the dioxidential. The common probe into the dioxidential and the proper probe into the dioxidential Activities of the had completely as you months there the just do had completely as you for the proper plant of the proper gained go in a six able to 60 in https://doi.org/

Later he was re admitted to the hospital for a study of the blue secretion For these investigates he was pliced in the Trendelenburg position and lipso fol was injected through the dranage tibe Although the bihary radicles were net outsact is the \tag 1 ms no gall bladder was seen. The patient had developed a desire to dinak his own he which added to the interest of the study of

The a crape daily secretion of bile vaned Imm 755 to 200 c cm. When the drinking of be wa. discontinued the daily output decreased more that 900 c cm. and the specific gravity of the secreted ble was reduced. Percords of the bile secreted ery two hours showed a remuskable uniformity. The amount secreted at might was apparently reduced. A high, carbonly drate dree was tolerated best A

high fat diet could not be tolerated. A high calone diet gave an increase in the daily output of bile. The blood cal ium and pho phorus remained consta t and seemed to be indepe dent of the inges

tion of ble

Various diets were tried and the results noted
carefully. The most pronounced findings were made
in connection with the high caloric diets. The det
mot acceptable to the patient contained 450 gm of
carboth draft 400 gm of protein and 20 gm of

yield ng approximately 2 140 calones
Historia M Camp M D

Genkin I Pathological Anatomical Changes in the Liver and Catt Riadder in Chanic Choic cy titis without St nes (Path I m h and m sche V acond ru g n Leber d Gallenback be: her scher Ch l cystuts oh e Sten / A k f kin Ch 927 21 v 75

Diseases of the gall bladder and bilary pa ages are frequently accompanied by changes in the parenchyma of the liver which not infrequently cause death after an operation for gall stonaries and the control of the part of a general hepatic disease.

Th author studied in detail filteen cases of cholecystitis we thout stones. In each in-tance as pere of liver tissue was excised at the time of operation. Pieces of the wall of the gall bladder were

GYNECOLOGY

UTERUS

Viegs J V Ben an Uterine Bleeding & Prelimi nary Report im J Ob 1 & G) 1927 to 25

In the clame at the Vlassachusetts General Hospital certain cases have seemed to suggest that one patients with by pothy reddsin or my ordering man have a larger flow than normal at the mentional period and that in consequence of poor the property of the

In some cases uterine bleeding in voung girl has been held in check by the use of thyroi I extract and extract of the corpus luteum. In one such case by perstuntan m or by populuitan m seemed to be the causal factor.

It seems definitely established that patients ath hyperthyroid in often have oligomenorrhora or amenorihar and that remo al of the hypersecreting gland may cause the return of the menstrual cycle to normal

It seems definitely established that true thrombo pame purpura harmorrhagica is a cause of e cessi e utenne bleeding and that there is a group of patients with dis ht variation from the normal in the r blood picture a history of petechar or black and blue spots and possibly a palpable spleen that have excessive uterine bleeding.

It seems definitely established all 0 that there 1 c other causes aside from the overy and the uterus for beni 10 menorthagias and metrorthagias

L L CORVELL M D

Schille Stud s in the Etology of Turn rs I
Ce ci 1 Car in mata f the Uteru II Uter
in Fib id (Ut h g z Etth d
Geschwulte I Cill me m d Utru ii)
Utru my m) i k f p ik i 1 , 1
9 168

Despite the great value of animal e periments in establishin the origin of multigrant grow to the deductions from mouse experiments can be of our limited application to human cancers. The reason for this is that matite exart norms has its origin in the same of the mouse. Furthermore in mice ca cinoma areas results from the de eneration of a primary beings tumor while in man it is the result u sulls of de centration of an inflammatory process.

The practice of gynecology affords the best opportunity for the study of precancerous changes it to apposible to note here the chan es in the spikelushing from the pro imity and in filtration of mailganary. The author describes in

detail ten early carcinomata of the uterus some of which were discovered by accident The conclusion from the study of these cases is that a precancerous stage cannot be established definitely tion from normal to cancerous cells is very sharp The downward growth results from the proliferation of the tumor cells the lateral superficial growth from tran formation and assimilation of the ad joining normal cells by the cancer cells. This transformation occurs so rapidly that it can be demonstrated only on the exact line of transition These alterations which do not always lead to malignance and therefore cannot definitely be called consist of degenerative nuclear precancerous changes with marked ordema muclear vacuolization intra and para nuclear inclusion of granules as well as ightly red colored light refractive granules of different sizes in the protoplasm

Schulter made a study of fibrouds of the uterus at the Lunversity Cynecological Climic at Vienna be cause of the report of von Krumbeinius bick pali sading of the nuclei not only in fibrouds but alo in in sarcomata vas described. Von Vercays had previously described this phienomenon as pathogomomic of carcinoma. Schiller found isolated areas of pali sadine of the nuclei in allmost eer in whom

The pulsading is seen only when the muscle fibers are cut obliquely or longitudinally. The plasades are arranged thickest on both sides of the blood vessels the moderat hands being at right angles to the course of the fibers of the blood vessels As a result of amitotic nuclear division the cells of these nuclear bands are at first close together being separated only by a tim layer of connective tissue while in mature myoma they have developed into a broad layer. The fiber bundles and nuclear bands a e force I by the limited space to deviate from the original of ection of growth and to branch to under so involution and to double back until the original cructure is entirely lost.

I er fit d bás as its protoblast a single myoblast from the large number of myoblasts in but erine w II and consists of only sh third different insted cell and collads hands. These are the cells b ch during pregnancy undergo hyperplassa and hypertropha and permit the phisological increase in the uterus. Since these structures can be stimulated by the normal physiological oursian bormone it is all o possible that the patholo ical simulation of the hormone may lead to fibroal formation. It

not ne es ary to assume that there has been an i clusion of tissue th ough maldevelopment as taught by Cohnheim Inflammatory changes which at the most can be but a supportive factor may also be el minated in the etiology of fibroids

GRAFF (G

macro copically as small yellowish tumors. A sinking feature was the marked vascularization at the site of implantation. Older transplants were firmly attached to their surroundings e pecially their bases.

Visconcopic examination sho vid that after two days the structure of the transplant was hardly discernible. All of the necroic dissues a sanditated by eucocyte. Only at the edges was there any intact tissue. This showed about lant mistors with the red tissue. This showed about lant mistors with the red indication of the other commands in places with an ordication of the other commands of the other than production of two the transplant from the surrounding production of two the transplant from the surrounding

is sues
Between the third and fifth days the transplant
appeare I to be completely infiltrated by leucosy tes
These were already undergroing degeneration. Except for a narroy peripheral portion the transplant
was entirely necroit C. In the connective toward the
capsule there vere nearly forme I red cells some of
them in tubular form.

On the seventh and eighth lavs a large number of regeneration cells appeared at the edge of the necrotic misses. The surrounding connective tissue appeared denser and the connection between the transplant and its surroundings seemed to be more

on the tenth and eleventh lays the transplant appeared to be already shrunken in the necrotic por tion The connective testue of the cappule formed a dense fibrous mig and from its very succulared and enteresting the process penetrated into the central necrotic area. The entire transplant as a connective time the capsule by delicate young connective time. The same five formed cells were much due to gether than before and usually in tubular form. They are well preserved with unders motic for usually on the preserved with a contract of the certain view of the preserved with an unders motic for usually on the preserved with a certain view of the very persphery. No certain view of the very persphery is consistent of the preserved with the very persphery and very desired as a subject of the exercised as self-unit very desired and absence of mitores In usolated area there were perspheral sproving of the exercised of darks.

On the fourteenth day the tran plant appeared still more shrunken and replaced by connective it sue. The connection between the transplant and its surroundings was therefore very intimate. The de generation of the regenerate was more pronounced

than before

After twenty twenty two and thirty three days there remained only a small central neet s almost the entire tran plant had been replaced by consective tissue. The entire regenerate was unlerg agide enteration. It was infiltrated with leutocytes from the capillaries.

The original transplant therefore was rapidly de strojed. The regenerate develops g from the pe riphery lasted for about three weeks and then also slowly died. Turk (2) gonortheal disease than in streptococcal or tuber

CARTRON said that the value of surgical interference in chronic aslingage ophoritis is evidenced by the almost entire absence of such cases from the mulatude of seem invalids frequenting, health resorts Before operation for chronic sall ingo-coophoion is the errus should be examined and it it in feeted it should be treated ridically. Usually it is removed with the corpus unless the patient it young if possible healthy portions of di-eased onners are transplanted. Addessions are prevented by sharp dissection, and raw surfaces covered with pretatoeum or meetium. There are many cases lowerer in which excision of the fallopian tubes is all that is required. Hysterectomy, should be

the acute stage of the di case
BLUR BEIL emphasized that the ovaries and the
functions dependent upon them are of great import
ance to the individual and the race in the present
state of evolution. It is possible in many cases of
stapingtis iduoconsideration as given to the preser
vation of the blood supply to conserve the ovary
in the normal po tion or in an adjacent position
sich as in the wall of the uterus. I reginancy is then
sould be preserved when it is impossible or un
sale that of the conservation of the ovary with its
blood supply the internal secretion and mensituation
are always preserved. When it is impossible or un
sue to conserve the ovary with its blood supply
the individual secretion and mensituation
such as the supplies of the ovary with its blood supply
the individual secretion and practiced in women

avoided if the operation has been undertaken during

succe side graft in the uterus.

Stocorows said that in every case of sternity in which the man is not at fault and there is no contra indication to the use of a test the fallopian tubes should be tested. When the test i negative for patiency the abdomen should be opened. The programs for cure is best hen the block is at the firm braited end of the f llopian tube. While the results are not startlingly favorable at present we are grained in continuing our efforts to cure sternlity be stipm ostomy followed by the insertion of cat.

The procedure of bisecting the uterus is a sq. The procedure of bisecting the uterus is a

under 40 years of age Pregnancy might follow a

definite advance in technique In the discuss on GRAVES said that early appendi citis is an extremely common cause of pelvic peri touts with later sterility caused by the gluing together of the tubal ambrice and an investment of the 012 ses with an organ zed tightly chi ging f brinous veil In cases of sterdity following septic abortion operation is often successful s ce here the process is extrasalpingeal. In sterility due to gonor hoea only too frequently the pro smal ends of the tubes are hopelessly obliterated and in spite of every reasonable conservative method of cure that in genuity can d vise failure is the rule but success is sufficently frequent to justify ope ation. In the tuberculous g oup restoration of fertility is hopeless and conservatism has no place When the ut rus must be sacrificed the o aries are not conser ed in fully matured women. There seems to be ery little

difference in the postoperative results of surgeons who leave the ovaries in situ at hysterectomy and those of surgeous who remove them

Riverr advocated early operation in all cases of acute salpingitis in the catarrhal stage. In a certain number of cases of chronic tubal disease 11th in palpable swelling and only a slight lesson of the sludpiant tube symptoms due to pelvic adhesions may demand interference years later. The operation in such cases may be most formidable. It is beside the point to remove healthy ovaries because they may de elop outrain cvist later.

I future stated that he removes the ovaries if the uterus must be removed. In cases of acute salpingitis he waits until the patient has had a normal temperature for to or three weeks before operating. For nearly twenty years he has treated gon orthora by packing the uterus daily with a zo per

cent solution of protargol in glucerine

Battots holds that many conservative measures in use as will as attempts to desiroy the gonococci locally by the use of strong antiseptics are unsound and useless procedures. As a rule the surgeon eris remo ing too little Drainage is important Briggs has found the results of salpingostomy in old standing tubal disease most disappointing.

MACLEAN has many times performed salpingos tomy in cases of salpingiti with sealing but he could not report a single case in v hich there had been a

succeeding pregnancy

BERKELY doubts whether the benefits that accrue to a woman by ha nig the ovaries left in are as great as some of the advocates of this procedure would lead us to believe. He operates in cases of acute salpingtic after the temperature has been normal for five days.

another portice days as sets of gonorrheed in fections first treases of gonorrheed in fections first treases and asstern chrome) with anti gonorectus serum in amounts varying from 0 to 80 c cm. She first injects the fallopian tubes with serum after opening any py osalpiny or or arian abscess that may be present mops out the abdomen freely with normal sal ne solution and closes the abdomen vibrout drainage. She operates as soon as the diagnosis of the presence of pus has been made to avoid diorgan zation of tissue permanent thickening and severe adhesions. The after treat ment consists of rectal saline injections the Fowler position and early and frequent purgation. The fection with appendicties

HENDRY reported 386 cases of inflammatory discase of the uterine adne a treated in the university synchological wards of the Glasgow Royal Inimmaty. Purepreal infection was the presumptive etiological factor in over 00 per cent of the cases. Hendry does not as a routine perform major operal in the acute or subsective states of the adners in the acute or subsective states of the adners drainage. See ently eight cases were treated ground servatively during the acute stage and only seven required operation at a later date. Operation was The following conclusions are drawn from a con sideration of ninety seven cases of inoperable carci noma of the cervix

Radium is a most potent palliative agent and in a small proportion of ca es the best curative agent for circinoma of the cervix. In coasi lengthe small number of cures it must be remembered that all of the cases discussed were advanced beyond poerability.

Apart from cure the relief of symptoms especially of hamorrhage and di charge is most marked in the majority of cases and this alone is sufficient

justification for the u e of radium

The effect of radium on a particular case of carcinoma cannot be foretold. It may be brilliant or nil therefore the prognosis must always be guarded.

There is no clinical or histological evidence that in a case reacting unfavorably radium has any effect in stimulating the growth of the tumor

I istula formation is a vell recognized complication of advanced carcinoma of the cervix. It can not be shown that radium properly applied predison es to it.

Radium can and will kill the crucer cell but only ben the cell is directly esporat to the ray. There fore although the primary Rro th may be beneficial to affected duration it del grammetrial glands are unaffected and one of the main problems is improvement technique of applications of that is many carcinomatous cells a possible may be brought under the full effect of the radium at once.

In the discuss a BERRFLEY remarked that the reports on cases of carcinoma of the cer is treated with radium are very contrad ctory lis results with ta hum have been very disappointing. For many years up to Augu t 1925 he had treated a large number of patients by inserting radium into the growth Beyond a temporary improvement he ultimate results in all cases except ne ere p or This case vas a striking one He opened the abdothe the intenti a of performing a radical hysterectomy but abandoned the tiea because the rectum and bi dier were so adherent that they could not be separate I and the gro th ha i markedly extended into the adjacent ti sues Later radium as in erted into the growth. Three years later the patient applied for the relief of a ventral herr a On varinal examination there was no evidence of a growth and the uterus was movable When the at domen was opened because of the hernia no trace of the gro th as foun i and the bladder and E L CO VEL MD rectum were quite free

ADNEXAL AND PERIUTERINE CONDITIONS

Boune A The Treatm nt of Ac t Gono hard Salpingitis J Obic G & B 1 L p 97 xx v 85 Witchouse B The Expectant Treatment of Pel vic Inflatamation J Ob 1 & Grace B 1 Eng 10 7 12 1 v 90 Curtis A 11 Surgical Indicatio s in the Treat

Curtis A 11 Surgical Indicatio s in the Treat ment of Gonorrhoral Lesi ns of the Uterl e Adnera J Ob 1 & Gy B if Emp 92

Cameron S J The Operative Tre to nt of Ci onic Salpingo Cophoritis J Oil & Ci onic Salpingo Cophoritis

G) at Bri L p 19 7 xm of
Bl ir Bell W Conservation of Ovarian Function in the S relical Treatment of Salping it

J Obst & Gnac B it Emp 917 XXV 113

S iomions B The End Re ult of S ip 20 t my
in Chronic S ipingiti with Spect. Regard
to P eganncy J Ob 1 & G a B I Emp 97

BOLENE advocates early operative treatment f reserve a cette suppurative salpin in a The operat in of chice is salpingostomy but a fallip an tube that obsiously can never perform its functi a should robe left. Here the operation the uterus is treated by frequent in ctions of glycerine and protage. I rainal assurance should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that the treat and the contract should be obtained that t

and urethra are free of gonocota WHITEHOLSE employs expectant treatment all subsequent surgical treatment at a time when it saids. He reports a most table to the Radical measures such as hysterectorsy are sefons method fertilety is map and thought an estimate the surgical distribution of the subsequent to the subsequ

CLRIS does not operate upon palents 1th active of subacture springings. Goornfred 1 asson of the fallopants be and adjacent to sues tends to produce a self limited or to. ton. The dc ex process so-caffed chronic cases is 5) pecaffs are infection Operations should not be employed for the renderation of tubal infection but should be reserved to the contract of the c

Curis find that a healed hidro alput of moderate are somet mes auest least troubt if the left undisturbed. He has ne er been able to relate st uit v. by plastic operations upon definely thickened! Hopan tubes but h mad les soro by discussed they jate to be fitly fallopan tubes may be fitly discussed the high callopan tubes may be fitly discussed the high fallopan tubes may be they fallopan tubes may be fitted for the fitted and has my may be fitted for their uit and may may fitted to mut be see fitted the fitted for the fitted for

with the indi ati ns for remo al some bat vertai less r d cal su gery appears indicated in

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Billiamson A C Pregnancy Following Thyroid ectomy 4m J Obst & Gy 19 7 XI 190

The author reviews forty eight cases of pregnancy following thyroidectomy from the stan ipoint of symptoms treatment and the causes of the phe nomena noted. The common symptoms were nery ousness an unstable blood pres ure restle one s constipation nausea and comiting. The treatment consisted for the most part of definite rest periods in bed each day during the first three months Two patients were kept in bed constantly for sixteen

Palpitation shortness of breath and fear were

among the mo t troublesome features

Thyroid preparations in doses of from to I Er twice a day seemed to be of value but frequently the patient became nervous and complained of headache while under this treatment and its temporary di continuance was necessary. A simple preparation of todane such as syrup of hydroo he acid fiteen from every other day for the period of pregnancy together with calcium factate in 5 gr doses seemed to be of ad but two pat ents reacted so poorly that the todine was stopped

All of the multiparce ent through to term Of the mmpare all but two went through to term Of the latter one m scarried at three months an i o e died of eclampsia in the seventh month. The babies were affected in ten cases of to ic adenoma and twel e cases of exophthalmic goiter The mothers of the e mian s complained of weakness ner ou ness and

palpitation after the operation

In every case in which there was difficulty with the baby the pregnancy and delivery occurre I within two years after the thyroidectomy In none of th cases had the mother recovered from the effect of the operation and in practically every case she had complained of the same symptoms a bel re the operation although her condition may hive been

In the cases in which the baby was born with en largement of the thyroid gland the mother s symp toms decreased in severity as the p egnancy pro

In the cases of eclamp in the symptom came on suddenly with no warning. Two of the women recovered and one died All three had an un table blood pressure the least exe tion o e c tement caused a variation of as much as xty poi ts

In conclusion the author states th t no operated upon for thyroid disease should become pregnant for at least two years afte the ope ation e en when her symptoms have been alle sated E L CORNELL M D

Lennie R. A. Pregnancy Complicated by Cardiac Disease. An Analysis of a Series of Eigl ty Six Ca es with Particular Reference to the Results of Trentment J Obst & Gynac B 1 Emp 1927 XXI 331

The majority of pregnant women with cardiac disease whose cases are reviewed showed loss of com pensation in their earlier pregnancies. Thi was especially marked in the first and second preg nancies the figures for which were approximately double the figure for the third pregnancy was a greater tendency for loss of compensation to occur in primigravida after midterm Los of com pensation occurred in the greatest number of patients by the sixth month while in the other months its incidence was fairly uniform. The great est strain upon the heart occurs toward the end of pregnancy

Of the cardiac lesions complicating pregnancy mitral stenosis is most to be feared. Distress due to this complication appeared in twenty nine cases (50 per cent) by the end of the fifth month and in f rty one cases (72 per cent) by the end of the sixth m nth Mitral regurgitation is a much less serious con lit on. The most important factor in the causa. tion of cardiac disease is rheumatic fever

Of eighty two women, 20 per cent had a normal full time d livery 18 per cent had a premature de li ers an 1 54 per cent required interference on ac ount of the gravity of their illness. The liability premature labor or miscarriage is greatest in cases of stenosis \ineteen patients died during the

pregn ncy labor or puerperium

The induction of labor by bougies is di astrous t de th rate being no less than 44 per cent The dan ers accompanying this operation in case of heart disease have long been reconnized. One of the author's patients ded at the time of delivery and o di d on the fourth and fith days after delivery another died later from sepsis. The mortality of the indu tion of abortion is 25 per cent and that of accouchement forc 50 per cent

The results obtained from abdominal section with ste lization (classical) have been exceptionally p mising Of the se enteen women subjected to th s oper tion only to o (11 per cent) died although all were in an extremely grave condition. Three of them had been admitted for antenatal treatment on two occasions during their pregnancy. The average st , in the hospital , as fifty days. The operations were performed on patients with auticular fibrilla tion precordial pain hamoptysis and other symp toms of advanced disease. The anasthetic was Fther is contra indicated because of chloroform the susceptibility of the e patients to pulmonary ædema



contained up to and after delivery until a total of a least eighten months of treatment has been and amustered and repeated in every pregnance. The sements should not be combined with mercury or bimuth but should be afternated with one of these drugs. The best results are obtained from salvar an given before and during pregnancy. So cause inferiors but the or the source that the cause inferiors.

The diagnosis and treatment of gonorrhota are the same as in non pregnant women Special efforts should be made to clear up the condition before

Erre

FirstGussov reports on twent; two cases of car duc disease complexity g pregnancy and labor in 13 000 confinements at the Roturn la Hospital Bubbla One 13 as case of fatal acute endocriditis in a primipara Among the twenty one patients used products when the control valued lesions there were four deaths a mortality of 10 per cent. Ten of the puttents were primipare Of these five developed decompensation during labor but recovered OI the five others who developed decompensation during pregnancy one died OI the cle en multipara: three went to term and developed tecompensation or measured in the transparent production pregnancy one died OI the cle en multipara: three went to term and developed tecompensation or mig labor but recovered Of eight who developed decompensation on impregnancy three

From the point of wen of the prognosi the cases are dwided into three groups. In Group 1 are those in which decompen ation occurs only as the result of labor 1 in the eth prognosi is good It is best in the cases of primipare and women under 35 metals of the prognosi is good It is best in the cases in which the prognosis is good to the prognosis is good to the prognosis is good and the prognosis is good in the good of t

When compensation fast on a pointpara during preg aney it can usually be endly re estably hed in multipare its re-establ hment is not so easy women of the first group stand the ubsequent labor well whereas those of the second group of not lieace the author belie es that after compens atton is estably shed primipa as should be allowed to go on the ough labor but multipares should be delivered by section combined with sternization in the thirty of the combined with sternization in the thirty the combined with sternization in the thirty section of the decompensation of exclusive backers of the decompensation of the case of the combined with the combined w

The author has noted I tile difference cl n cally between the various types of less ns d s u sed E L K M D

M ss y R D Hype emes s Gr idarum A II

It has been customary to clas ify the vomiting of pregnancy accord ng to the supposed cause into three

types reflex neurotic and toxic. At the present time little treatment is given in ca so of reflex vomiting although attempts are usually made to rethere malpo itson of the uterus and appropriate treatment; advised for gross lessons. The extent to which neuro is may influence severe vomiting of apparently toxic origin and the influence of toximus in every case of vomiting are often difficult to determine So called to invomiting has been attributed to various causes whet of which are (1) the absorption of foreign protein (2) deficient secretion of corpus luteum or thyroid of suprarenal glands or hepatic insufficiency. (3) hypochlorhydmi. (4) car boby drate deficiency and (5) deby dration boby drate deficiency and (5) deby dration.

From the standpoint of treatment the cases are divided into three groups those in which the symptoms are mild those in which the symptoms are mild those in which the symptoms are moderately severe and those in which the symptoms are severe. Most women who are nauses ated and voint will be relieved if treated early Most of those v ho voint severely allowed the condition to become advanced before they can

sulted a physician

For the mild form of hyperemess the patient is given daily at least five small dry meals consisting largely of fruit and carbohydrate retaffer each meal and fluid between meals up to 2000 c cm daily. Sedatuses may be u ed freely. Undue phase call or nervous strains are to be avoided. In capture which the gastric secretions are strongly and alkales may be used with good effect. In those in which there is decreased auxility dilute hydrochloric acid has recently been proved of value.

The group in which the symptoms are moderately sever is made up of cases in which I title or no food or liquid is retuined and there is loss of weight with dehydration. The treatment consists of rest in bed and the administration of 5 per cent glucose solution by rectum (Murphy drip). If improvement is not noted after several days of treatment glucose should be given intrainenously all o Solumi bromide by rectum or phenobarbital by mouth or hy podermical is may be administered. No food is given by mouth during the first twenty four hours but no restriction is placed on the amount of fluid taken.

In ca es of sovere hyperemess (so called per acrous vomiting) flu d must be given to relieve de hyd atton and glucose admini tered intravenously to spare the liver and produce a diuretue effect Glucose may be given in combination with insulin It the ac dossi is not relieved by gluco e a solution of dium bicarbonate may be given by protocoly sis

or ntravenously

Although vomiting can be controlled by the e

measures in most cases of hypermess sooner or late a patient will be encountered whose condition c nnot be controlled thereby and whose condition grows steadily worse. In such cases emptying of the uterus is necessary to save the patient is life.

Eight illustrati e cases are reported including two cases in which the vomiting was due to complications not due to pregnancy

Uncomplicated stenosis was responsible for the highest death rate (eleven deaths in nineteen cases 57 per cent) Thirty six per cent of the Thirty six per cent of the

deaths were those of primigravida

In the discussion of this report HEYDRY did not agree that exercean section is the easiest type of delivery but stated that he regards it as very sound treatment in many cases It is an excellent method of treating a patient who has had several pregnancies associated with failure of compensation at a progressively earlier stage. Its value in such cases hes in the opportunity it affords for sterilization. In the cases of primigravide it may be the easiest way to terminate the pregnancy but Hendry has never used it For the induction of anasthesia Hendry employs chloroform

PARAMORE stated that in advance I cases cusarean section is the best treatment as it saves the patient from the strain which is associated with even the

easiest delivery

Munro Kerr J M Cardiac Disease in Relati n to Pregnancy B 1 M J 1927 11 245 Tuberculo is in Relation to Pregnancy

E L CORNELL M D

Rt M 1 1027 1 247

Browner Browner Stene cal D sea es in Pregnancy

FitzGlibon G Cardiac Disea e in Pr gnancy and
Labor B M J 1927 53

MUNRO KERR discus es fifty eight case of cardiac disease in pregnancy from the stan fromt of (1) the gravity of the condition (2) the d tress mani fested and (3) the treatment to be empl ved

The mortality of the complication is high be en of the fifty eight patients died in the war is Of these seven five had had prenatal care and three died undeliver d. All of the patients who died had mitral disease and in two this was complicated by auricular fibrillation

The danger signal are the usual sign of heart failure Decompensation with aortic regurgitation is very serious. In mitral regurgitat in the prognosis is good if the leart mu cle is sound whereas in mitral stenosis the prognosis i unfavorable Accord ing to Leanie the mortality in pregnancy com

plicated by these les ons is 78 and 45 per cent respectively

The treatment is primarily a matter of co-opera tion between the obstetrician and intermst Me lical measures should be tried first. If they fail ofter a trial of from seven to ten d 3s interference is in dicated Death may result f irterfe rce i to) long delayed or an in proper method is used. The author does not fa or the induct on of I bor pre ferring vaginal or abd minal exsurean section with If spontaneous sterilization in appropriate case labor occurs forceps may be used The services of an expert anasthetist are advi able The parperium must be watched carefully as

death may occur three or four days after delt ery Rist states that from 15 to 20 pe cent of pregr rt nomen lose their capacity to react positively to the eutaneous tuberculin test and do not regain it until some time after delivery Th s temporary loss of the allergic state probably means that the specific resistance to tuberculo is is dumin hed.

The author is convinced that when tuberculo is is d agnosed on the basis of rehable criteria (eg positive sputum or \ ray findings) pregnancy adi tustics are based on erroneous diagnoses

Of fifty two women on Rist's hosp tal serve in whom pregnancy occurred subsequent to the de velopment of tuberculosis the condition of 15 3 per cent was unchanged but incurable and that of \$16 per cent vas made worse Fifty per cent of these women were dead by the end of the second year Of fifty five women first develop ng tuberculo is during p egnancy the condition of 10 9 per cent was unchanged and that of 80 00 per cent a s made worse I'llts et ht per cent were dead by the end of the second year Of sixts two women becoming tuberculous within sx months after delivery the condition of only eight remained on e cent s ven teen died within to years and seven ded later Viany a tuberculous noman wh was make satis factors progress has died a account of an inter vening pregnancy Con ersely the be t test of the permanent healing of a tuberc lou lesion i the ability of the patient successf lly to neather a pregnancy and labor

The author does not favor the induction of abortion in these ca es. If it is done it should be resorted to only in the first three months and then only ir excentional s rees lifter the first three months interference is always harmful Ri t has seen tuberculosis aggravat d by spontaneous abor tion Artificial pneumotho ax tho gh only abo t half as effective as in no pregna t women is better Of eighteen women thus treated befor p egnancy fourteen are cl mcally well and four are dead. If a woman has been successfully treated by this method and has been chincally well for t o years o lorger p eg ancy may be permitted proviled the pneumothorax i mintined throughout the pregnancy and f r six month after a d

BROW E states that syphilis is encounte ed in about 7 per cent of the cases in an ordinary pren tal c'inic A hi tory of repeated unexpla ed abortion

t libi the or neo tal death is suggestie A troughy positive Was ermann reaction is reits e vien e of syphili The large pale great placenta (found only if th fetu is mace ated) s gen ally syphilic Spirochetes may be dis cove ed n the intim of the umb he I vein of the cord e pecually the fetal and If the l er of the macerated fetus ighs one t lith or more of the total b dy we ght the spicen w ghs more than a hundr d and fiftieth of this t tal the fetus is almost certainly luctic The demonstration of sp rochrites in the organs generally the liver spicen supre coals and Lidreys is absolute evidence of syphilis

The treatment should be begu as early in the p egnancy as possible or b i re t e pre-mance

Bourne A and Burn J H The Dosage and Action of Pituitary Extract and of the Ergot Alkalolds on the Userus in Labor with a Note on the Action of Adrenalin J OS t & G, sc But Eng 1927 xxxx 249

The authors have investigated the action of small doses of pittutary extract administered during the first and second stores of labor recording the effect by a graphe method. A dose of two units may be expected to hasten the course of a dug with both provided it is not administered before the osts of the course of a dug with the pitture of the course of a dug with the pitture of the course of a dug with the pitture of the course of a dug with a dug with the pitture of the course of the course of the course of a dug with a

The shortest interval at v hich any dose can be effectively repeated is one hour but often the in fluence of two units lasts longer than this

In tests of the action of the separate ergot alka looks it was found that tyramine has no value in obstetrics. Histamine in a dose of 2 0 mgm in jected under the skin produces a powerful but brief effect it appears to exhaust the activity of the uterus.

The specific alkaloid of ergot (ergotamine or ergotoun) has a very prolonged action and appears to be an ideal agent for use after delivery. Fatractum ergotæ liquidum (British pharmacopecia) does not conta i the specific alkaloid and can ha e no therspecific effect.

Adrenalm injected into a vein inhibits uterine contraction before delivery

I ther has a s m lar effect

I to y i M D

PUERPERIUM AND ITS COMPLICATIONS

Burger P Articular Metastases of Pue peral In fection (Le met t es at l es p rp 1)
G kol gu to 7 xt 33

Articular metastases of puerperal infection are comparatively rare being limited to gra e ca e of gene alized puerperal infection—pixmia or septicem a

Of the n ne cases reported by the author all of which were fatal six were due to streptococcus in fection one was the result of staphylococcus in fection and one the result of a mixed infection. In one no bacteriological examination was made

The metastass is attributed to a bacterial embolising riving rise to the formation of an abscess with perforation directly into the joint cavity or dissemination of bacteria by may of the lymphatic vessels or provoking stass with consequent penetration of the bacteria by dispediess into the lymphatic vessels and I thence into the joints

In the myonity of ca es reported the metastasses were multiple and occurred earls in the course of the infection. Their appearance renders the prognosis grave. Va a rule they follow obstetrical interventions made without proper precautions for assepsis. In three of the cases reported they developed following an abortion. Two of the abortions were criminal

The treatment can be only symptomatic. When exploratory puncture reveals the presence of pus in a joint the cavity should be opened in cases of streptococcic infection. In cases of staphylococce or other infection exacuation by puncture followed by irrigation with an antiseptic solution is often sufficient. When A GIURER LEXE.

MISCELLANEOUS

Nevermann II The Fate of Eclamptic Women
(U b das Schicks l der an Ekil mps e 1 nkte
Frau n) 1 ck f G) k 1927 c x 89

This report is based on sixty women who were treated for eclampsia in the Women s Hospital at Eppendorf After an interval of years thirteen complianced of headache twelve of impairment of memory four of ocular di turbances five of swelling of the legs and one of itching of the similar light had an elevated blood pressure. In three cases the unite was cloudy and in threat contained albumin and casts. In subsequent pregnances an ordema of pregnancy as more common than a true nephropathy. In four instances there was a recurrence of the eclamps a

After a time the changes in the capillanes which are characteristic of eclampia completely dis appear. The transition of eclampia to chronic nephritis occurs either very seldom or not at all. The occasional persistent changes in the kindeps of eclampites are apparently nephrotic changes in the tubules.

Recurrent Pregnancy Toxemia L Snuof Oh I & Gynac Brit Emp gay inus 279

The investigations here reviewed indicate that in nomen who develop convulsive or non convulsive eclampaia there is a factor tending to cause placental

In some of the cases probably the majority in which this occurs the tregnancy is rate the terminated b) abortion accidental hamorrhage premature de livery or stillbirth and there is no toxemia Tox a mia levelops only when after placental damage the abortion or premature birth does not take place soon enough or quickly enough and a large mass of lead or degenerating tissue is left within the uterus in immediate relation to the maternal blood stream

The factors which cause placental damage may be Ixal or general \ probably important acquired cause is infection such as chronic endometritis metritis and c reject a and local infection. As has been frequently pointed out the febrile temperature often associated with eclampsia is suggestive of an

infective basis It is concervable that the causes of the placental dama e are pot specific in nature an I that they may be of several kin is for example it is well known that a plural pregnance may determine the devel opment of toxemit In the author's series three cases of eclampsia (6 4 per cent) and eleven cases of non convulsive toxxmia (4 4 per cent) were cases

of the factor behind the arreste! pregnancies in cases of toxa mia acts in some way different from the spirochate of syphilis. In this connection it is in teresting to note that whereas in toxemic cases characters tic placental lesions are found in syphil's the placents seems to suffer no such characteristic damage

Lecognition of the high incidence of recurrence in true eclamptic t ramin and in ca sol eclampsia of the considerable tendency toward recurring ab orti a and premature labor makes necessary a revision of our views regar ling so called nephritic EIR EXOL

The distinction which has generally been drawn between the eclamitic and non recutrent tot amia and the nephritic and recu rent toxamia is shown to he e lost its seaction. This statement fors not apply of course to those comparate ely few cases of antecedent kidney di case due to scarlet fe er which differ distinctly from the specific pregnancy toxemia in which the nephritis is the secondary condition

There is no v considerable evidence for the vie v that the eclamptic and the recurring toxemias have a similar origin in the userse i placenta and that in both types the kidney le ion is secondary and often aggravated by the placental dam ge occurring in successive pregnancies

The exact chemical nature of the poisons respon sible for eclampsia is still undetermined

E L CORNELL M D

LABOR AND ITS COMPLICATIONS

Hofbauer J Hoerner J K and Oli e K. S The Nasal Application f Pituitary Extract fo the Induction of Labor Am J Ob 1 4 Gre 1027 E 137

In the nasal application of pitutary extract for the induction of labor the nose is first carefully ex amined with the aid of a nasal speculum and re flected light and is cleaned of any crusting or discharge 1 small pledget of cotton of such size as to fit easily but snugly between the septum and the inferior turbinate is then prepared and after it ha been moistered with 20 minims of pitu tary extract is inserted under the anterior end of the inferior turbinate

In the cases reviewed the first chance noted was a marked increase in the fetal mo ements which almost routinely preceded the first uterine con tractions The latter be an invariably within from one to five minutes after the application of the drug These first contractions were timed and the letal heart was suscultated at frequent intervals When a contraction lasted longer than four minutes or the fetal heart sho ed untoward changes the pledgets were immediately withdrawn. The tetanic contract tion then subs ded in from one to five minutes and there was coincident complete recove 3 of the feial heart Subsequently thy thmic contractions a' er nating with periods of relaxation cortinued and usually in such cases no further admin tration of the drug was necessary

Unless true labor pains set in with a two or the hours the contractions gradually became shorter and weaker and the intervals between them became I nger Accordingly when it was evident that the effect of the first admins tration was nearing off the pledgets were removed and replaced by fresh ones containing the same amount of p tu trin In the majority of cases from one to three applications ere required for the successful induction of labor but in a few cases as many as the doses were necessary

The local cond tion of the nostrils is of great im portance for a successful result. Any abnormal con dition such as acute coryza profuse lachrymst on or chron e catarrhal inflammation mil tates against at orption L en the normal accumulated output of mucus evoked by the preserce of the cotton pledget becomes suff erent within one or the be is to cause a decided decrease in the resorpti n of the

In fifty four cases in heh the procedure was used there was only one failure When the cerural canal measures 2 cm or mo e in length and the external os is tightly closed the chances of success are compa at telt poor

In cases of pre eclampsia only to in of pilutary ett ct are used n the first dose as the uterus is hope ensitive Later if the patient pa es less ensitive the dosage is increased

E L COR TIL MD

calys as distinctly characteristic and may be regarded as a diagnostic and if the pyelogram is employed. The objections to routine pyelography in rehal tuberculo is are discussed at some length. The conclusion is reached that the procedure is rarely necessary often unrehable and attended with dancer.

O CONG and REMARKET TEVEN 3.6 cases in which pelo-ureterograms were made and report the find ing relative to congen tal anomalies variations in the normal hydronephro is tuberculosis of the kidney and ureter renal neoplasms renal and ureteral calcula ptosis of the kidney obstruction of the ureter and the differentiation of abdominal

and retroperatoneal mas es

They conclude that pyelo-ureterography has por ed an irrportant dan nestic and but is only concern the state of the state

VI nd 1 J V In est g tions with Regard to Per manent Cure After Operation for Renal Tuber

culos à A Report on the Value of Pure Cultures of the Tubercle B. cillius by the Loesenstein Method for Th s Purpose (L. 1rs. ch. ge. ucher b. Due he 1. gra. h Ope un wg. ntu be kulos. B. nichteuberd il. Wright ide zwides m. Zwecke ag. die Renz it n. g. f. hen der Toeth iba ille. ch. Lowente) Zi. I. f. l. 2. 97. 27. 27. 23.

From his expenence of two decades the author has come to the conclusion that only the surgical removal of the tuberculous focus in the kidney experiencing, you can assurance of a cure of unitarial tuberculous. He believe we can speak them to be the series of the control of two years and that only when this is the case and renal function is normal to the control of two years and that only when this is the case and renal function is normal.

can permi ion for marriage be given For the demon tration of the conti ue i absence of tubercle bacilli from the urine Mandel has found the method of Loewen tem of special alue This method is better than guinea pig te t sit reveal all strains of avian tubercle bac lli which are pathogenic to man but do not affect the guinea pig Its use is of advantage also because the pe od of observation of the cultures is ho te t being usually only from three to fou months and sometimes only one or two months before the culture become acti e As p evious to the making of the cultures the u ine is treated with 15 per cent sulphune acid which kill off all other bacteria a microscopic e am n tion is usually unnecessary when the cha act st c spher scal crumbling wh te cultures appear upon the nu tnest medium potato glycerine. If only n n char acten tie cultures appear the cultures may be spread on a glass slide and stained by the Zehl

Neel en method to prove the absence of tubercle

The author obtained a permanent cure in 175 case of renal tuberculous. The operations were per formed at least six years ago. Severe bladder symptoms or contraction of the bladder persisting after a nephrectomy for renal tuberculous are not necessarily due to tuberculous. As a rule they are produced by a mixed infection and are to be treated in the same way as existing.

in the same way as Cystus.

A percequisite for cure is the prevention of soiling of the operative field. To this end the ureter is divined with a Paquelin cautery and into the care fully grasped ureter clamped off below a silk web catheter is introduced and carbolic acid solution is injected until the first drop appears alongside the injected until the first drop appears alongside the content of the content

Ten cases are reported in detail

ROSENBERG (Z)

F ommolt G The Collateral Arter 1 C reulation of the Human Ureter (U ber de rt nellen Kol i teralbah mm schi chen U eter) 21 ch f G b t h G k 9 7 xci o

The purpose of the investigations here reported was to determine why the human ureter is able to withstand extensive of surprison from its bed such as occurs in the radical Werthern operation without resulting disturbances of its errollation with fistulation of the surprison of the resulting disturbances of its errollation. The surprison of the ureterial circulation. The surprison of the ureter is supplied by the renal arren, the lower third, by branches of the uterino or vesseal

arter, and the middle third by the ureteric artery I rommolt studied the ureteral vascular system in forty four injected specimens. In only four was there no branch from the renal artery In two instances insufficiency of the injection was evidently respon s ble In the two others there was instead a branch from a capsule artery. In three specimens it was poss ble to demon trate a branch to the ureter from the spermatic artery the ureteric artery was missing In all of the other cases the artery of the ureter was found art ing from the aorts the common that ar tery of the hypogastric artery. As nutrient vessels of the lower third of the ureter it was possible to demonstrate fine branches from the vesical artery the uterine a tery and in six cases the median hæmorrho dal arters

Of special importance in preservation of the ureter is the fact that the nutrient vessels fir t divide just before they reach the ureter and then accompany the latter upward and downward outside its adventilation from these vessels secondary branches pene trate the adventitua and anastomose with each other

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND DRETER

Oppenhe mer L I A Discus lon of Three Case of Bit terni kidney Calculi Calf na 5 ll st M d 19 7 2231 00

In the Alameda County Hospital Cal forma 7 : per cent of the cases of kidney calculi seen in the last five years ere bilateral Of five patients with calcult in the upper urinary tract who were treated at the Oakland Health Center Urology Chaic during the last twenty months two had bilateral stones

In Case 3 of the three ases of bilateral renal calculdiscussed by the author the roentgen examination was merely a corroborative measur It was evident without it that the patient had renal calcul The number ize and disposition of the stones were demonstrated by the film. In the two other cases the roentgen ray examination was essential to the diag

nosis because of the vague nature of the symptoms In Cases 1 and 2 operation was not indicated The kidneys would have been torn to pieces in the removal of the stones and the already reduced kidney tis ue i oul i have been le troyed

Patient to 3 with multiple inaccess ble calculwas sent to Braasch and was operated upon by Hu t under direct fluoroscopic vision twelve stone b ing removed

In conclusion the author emphasizes the importance of early d agnosis and treatment of urinary cal cuh If this is not done conditions such as occur ed in Case 1 and 2 may ensue The \ ray should be u ed as a routine procedure when a pathological condition of the kidneys or ureters is aspected

The third cas illustrates the p ss bil ties of manipulative remov I of small calcul so the upper unnary to et Usually it is only after weeks or months of intermittent effort that encouraging te sults are obta ned

In the surg cal removal of multiple inaccess ble kidney stones the use of the fluoroscope at the oper att g table is the best method of insuring complete removal of the calcula This is possible ho e er only 1 the largest clin cs becau e the installation of the apparatus is expensive and because the se vic s of a roentgenologist especi lly trained and experi enced in the work are essent al L UTS GR ss VI D

Locale E C & R y Assistance in Sol ing Genit Urinary Problems Rd l zy 1027
kerrns W \ Pyel graphy in Renal Tubercu O Conor V J and Remm st A The Value f yelo Ur te og aphy as a Di gn st c Aid

Rad / Ey 9 7 Korvic adopting Pa menter's classification of genito urina y problems into five groups discus es

the conditions which may produce the various symptoms In infections of a non tuberculous type the size and shape of the ren I pelves and cal ces may give a diagnostic prelogram Permephric abscess may be demonstrated by a prelogram when the abscess communicates with the pelvis or calves A diagnostic pyelogram may be obtained also in chronic prelone; hritis and renal tuberculosis. The p esence of calcult is practically always shown in the pyelogram Ptos s of the kidney can be demon strated by the roentgen ray Hydronephrosis and pyonephrosis produce characteristic pyelograms showing marked enlargement or distortion of the pel is and calyces Renal tumor may be demon strated when the Lidney substance is so d storted or invaded that the outline of the pelvis and c lyces is

thanged In the bladder the final results of a chr n c infec tion may produce an abnormal cystogram Stone 1 usually demonstrated in the roentren peture Tumor may produce a characteristic cystogram with an irregular outline. The deformity caused by an adenoma of the pro tate has a r ther clean-cut outline whereas that caused by a malienant growth

ıs ırrezular

KEARNS cites the opinions of numerous author ities with re ard to the value of pyclography in renal tuberc losis Be ause of the conflit of opinion he has refrained from us ng the procedure. He reviews the findings of a py elograph c study of fift en fr shly exceed tuberculous kid eys supplement ag h s ep rt with photo aphs and roentgen grams In several instances in which the les ons were in a very early st ge the pyelo ram sho ed no changes The findings ere often ne ative also in cases of the closed type of lesson in which there was I tile en croschment on the pelve In the for ms that in ol ed the pels s prima ily and in the moderately ad anced fo ms of th ulce o a ernou type the characteristic changes e e noted The most constant a ding in this series was the dilat tion of the cal, ces with a rag ed o fuzzy indistinct border frequently The des ructive tend describ d as m th eaten ency was quite constantly exhibited in the islets of fill ag th t occurred when the continuty of the pelvis vas destroyed and the injected I qu'd penctrated int the cavities in the parenthyma cavities agied in size They appeared to be cor pl tely 1 plated at some distance from the pel s or the r on ection with the pel is was demon strated by a narrow chan el of hill g

he ras concludes that the quite con tant limits t on of these d fects to a circu nscribed port on of the pelvis may be consid red additio al sub-t tial The lo alizati n of the evidence of tuberculos leston t one or tw minor calyces or to a maj f

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Cooperman M B Gonococcus Arthritis in In fancy A Clinical Study of Forty Four Cases
Am J D Ch d 1927 xx 932

This report is based on an outbreak of gonococcus arthrtis in a maternity ho pital Forty four cases came under observation. The first clue to the cause of the condition was obtained upon aspiration of the knee of a male infant 2 weeks old Smears and a

culture showed gonococci The patients were ho pitalized for from one to three months The general manife tat ons of the condition were of a septic nature with irregular elevations of the temperature from 90 to 103 de rees F Seven febrile reactions in six cases were probably due to secondary infection. The nutrition of the patients was well preserved and there were no

demonstrable visceral complications

The blood showed a leucocytosis anging from tt 60 to 27 800 The erythrocyte count ranged from 2 000 000 to 4 000 000 and the hemo lobin content from 40 to 80 per cent The blood culture was positive in only one case. Aspirated fluid re tealed gonococci only in the early stage of the

The spine was in olved in six cases a single joint was affected in ten cases and two or more joints

were involved in thirty four cases

The local reactions were striking. The skin was glazed violaceous and hot The joint contou swere obliterated by a marked periarticular ordema. The soft us were turnifed and of a woody r sistance to palpation. Motion vas markedly restricted by muscular spasm and distortions were extreme

Penarthritis was pre ent in 4 8 per cent of the cases suppu ati e arthritis in 33 3 per cent and non purulent synov tis in 11 8 per cent

Flaccid paralysis due to infilt att n and ordema of the peripheral nerve trunks in relation to the in vol ed joints was frequently observed. In many cases the condition was mistaken for poliomy eliti in the earlier stages

Osteomyehtic foci within the shafts of the long bones pathological dislocations of the hip retarda tion in the appearance and abnormal de elopment of the epiphyses and destructive changes in the acetabulum of an infected hip joint were found in eighteen cases Spinal curvature developed in cases in which the hip joints we e nvolved

Ankylosis a common terminal result in adult gonococcus arthritis was not observed D location of the hip joint was undoubtedly the most dis astrous complication result ng in most cases in

permanent crippling

Whenever practical all inflamed joints were im mobilized in metal or plaster of Paris splints In cases with involvement of the lower extremities or the spine a double plaster of Paris spica was applied from the toe to the aville. The chest abdomen groin and buttocks were exposed by a large opening Intra articular exudates were removed by aspira tion or inci ion and draina e of the joint Aspiration vas done most frequently in the knee It was re

peated at intervals of from three to five days

When puncture or other diagnostic method in dicated the presence of local suppuration the joint was incised and drained Following the arthrotomy it was covered by a gauze dressing kept moist with sterile salt solution and kept warm by means of an incandescent lamp. At each dre sing the cavity was irrigated with warm boric acid solution. The results obtained in these cases were gratifyin dama e supplemented later by diathermy complete func tion bein, obtained

As no beneficial results were apparent from the use of auto enous or stock vaccines this therapy was

di continued after a month

Foot drop and wrist drop contractures of the knee and elbow and pathological di locations of the h p joint were the most troublesome of the sequelæ No permanent damage resulted from involvement of

the peripheral nerves The treatment of di location of the hip was in stituted when the child was 18 months of age Because of difficults in manipulation and because of the frequent changing of the east necessitated by soiling the results were disappointing. In practi

cally e ery case the dislocation recurred Later open operation was attempted. It was then found that the head of the femury a deformed and the acetabular cavities were filled with scar tissue Thus far the results of open operation have been more successful than those of closed manupn! tion ROBERT C. LONERGIN M.D.

Brailsfo d J F Roentgenography of the Spine Am J R tg 1 1927 X111

By modern technique satisfactory roentgeno grams of the spine in the lateral projection can be obtained The author reports in detail three cases in which such roentgeno rams added materially to the diagnostic value of the roentgen examination

In one a foreign body in the lower part of the neck was repeatedly localized incorrectly in antero posterio exposures made stereo copically and by localization technique Lateral exposures subse quently showed its exact position and led to its re moval In the second case spondylohisthesi was incorrectly diagnosed until the lateral view of the For more exact proof of the function of these vascular anatysmoses the author Magneter deptatus of different colors are made dlypogastics are:

It found a mighty and dlypogastic are:

It found a mighty for the second and the second and the second and the second and the second are the second as the second as the second as the second as the second are the second as the second as the second are the second as the second as the second as the second are the second as the

In Frommolt's opinion these findings demonstrate that interference with one or several ureteral arter ies does not harm the nutrition of the ureter

The influence of stripping of the ureter on its peristalsis was studied in experiments on dogs. No permanent influence on either the peristalsis or nour isament of the uret r was noted. Wille (6)

BLADDER URETHRA AND PENIS

McCartly J F and Ritte J S Suct on as Ap pl ed to Urological Cas s at the New Yo k Lostgraduate Hospital J Ur 1 1027 Nt 211

The authors have devised for postoperative bladder cases an apparatus with which they are able to apply satisfactors such on the town one to several patients at a time. Water section is proposed to the patients of the particular patients at a time. Water section is proposed to the patients of the patients of the patients of the apparatus as described with the aid of drawings and the technique of the use of the apparatus is given in the patients of the patients of the apparatus as the patients of the apparatus as the patients of the apparatus is given to the apparatus to the apparatus to the apparatus the apparatus that the apparatus the apparatus that the apparatus the apparatus that the a

In urological cases suction for draininge is as great an asset as careful pre operative preparation. By the method de cribed the length of time the patient is obliged to remain in bed is shortened. In comfort is increased during his stay in the hospital and his recovery a hastened. Join & Chergham. 1D

GENITAL ORGANS

Da is E A Distensible Bag for Hæmostasis and Drainage Following Pe ineal Prostatectomy J U of 1927 avil 1

As hamorrhage is an important factor is the mortality of prostatectomy careful hamostas both during and after the operation is imperative. The author describes a distensible hamostatic rubber hag he has devised for use following penneil prostatectomy. He discusses the technique of the operation with regard to the methods of hamostass.

and the introduction of the hemostatic bag
In 100 consecutive cases in which the penual
prostatic bag was used there was only one case of
senous delayed humorrhage. In the last suty lour
consecutive cases additional gatter parking at oper
tions was consolved the exessing only once but was
thou was consolved the exessing only once but was
triaccable to the use of the bag and the control of
humorrhage. has been ever satisfactory

JOHN G CHEETHAN M D

Campbell M F Hyd occle of the Tunka had nalls a Study of 502 Cases S rg Dynr & Ob! 1027 My 0

Campbell reviews 502 cases of hydrocele of the tunica vaginals. The cause of the condition is usually an inflammation and very often an unsuspected tuberculous lesson in the scrotum

The surest diagnost c aid is transillumination but in a few cases this will fail. The main symptoms are us ally pain and swelling of the scrotum.

Tapping occasionally effects a cure in children but is seldom curstive in adults. The best procedure consi is in opening the sac trimming of the redundant part and then everting the sac.

The angesthes a of choice is local angesthes a The Frognos a is good. The average length of hospital isation is from six to mine days. Exact Hess VID

point. For physiological and pathological regenera to inntion is of the greatest importance. The primary consequences of an injury to a joint are pain musual reconstruction loss of elasticity and plastic proces es. Secondary changes are destruction of cartilage the formation of connective studies the offermation of connective studies of the point blocking by osteophytes and shrinkage of the point blocking by osteophytes and shrinkage of the capualty lauments.

In a study of regeneration we find much that is contradictor, in the cartilage the ends of the joint the capsale the ligaments the interarticular disks the fatty bodies and the joint cavity. In expenments on animals a slight contamination gives better results than a completely aseptic operation Inflammation and themical irritation play a role in

regeneration

In the diagnosis of injusies and diseases of the joints the roentgen ray is an important aid. A particular joint technique must be used. In addition to fluoroscopy roentgenograms made not only in the two usual positions but also obliquely are necessary to determ ne the depth of foreign bodies and loose bodies and the presence of isolated foci Stereoscopic exposures or the injection of contrast material or gas may be of great aid Auscultation endoscopy blood analysis (sedimentation rate for differentiating between inflammatory and degenera tive processes etc) the hydro en ion concentra tion the use of tuberculin and excision of the cap sule may be of value It is of great importance to determine the presence of a latent infection and the behavior of the joint under anæsthesia

In determining the indications for operative freatment the surgeon must di tinguish between a health) joint with local mechanical injury and a pat that is severely damaged in its entiret! Exploratory opening of the joint is to be avoided so far sposs be Of great importance is the decision as the conductive of the conducty, clat opine phase presented to conduct of the conducty, clat opine phase presented as as as a social status great curve and the patients a set and social status great curve and the patients as a set as social status great curve and the patients as the conductive procedure must be planned beforehand. It must be decided whether the joint useful or some other mem or of the k enter chain shall serve as the point of strick and whether the 1 tervention shall be intra-liveliar or interarticular or paretiave or non opera

The following basic types of pocedures are remarked restitution of for m and function stenkes of a diseased yout and planned destinate to so fine and advanced yout and planned destinate to so fine and a diseased yout and you can be comedified to so fine and a so that the sound you can be comedified to so for the sound you can be compared to the sound you can be

joints (6) the combating of chronically or period cally recurring discharges (7) ankylosis arthro-plasty (8) arthrodesis (6) extirpation of joint tumors (ro) improvement of form or position (de formities) (r) para articular correction in disease conditions to re tore lost motion (gesediarthrosis) or the conditions or et ore lost motion (producture) operations on other organs of the body (endocrine clands) to obtain a reaction on the joints

With regard to the general technique Payr states that the choice bety een inhalation narcosis and con duction anysthesia (segmental anasthesia is im practical) must be made on the basis of the indi id ual case. If the operation is not done in a bloodless field careful hæmostasis is necessary. Flaps of syno ial membrane or fat pedunculated or free are of value for hamostasis. The burying of large forei n bodies and particularly metal foreign bodies in or on the joint is to be avoided if possible on account of the danger of producing irritation of the synovial membrane arthritis deformans and necro 1 with expulsion of the foreign body into the joint cavity. When the use of such a foreign body is una oidable a convenient extra articular method for its removal should be planned. Non rustable steel is the be t material. The fixation should be done to the cortex For sutures in joints catgut is best Plugs should be used only in tuberculosis Dead binding material should be replaced by hying

The different biological reactions of bone and cartilage to irritation are discussed. Care must be taken not to injure cartilage. The operation must be performed with a delicate touch peeling off of the periosteum and superfluous exposure of bone are to be avoided. In aseptic cases no dramage is neces sarv The capsule should be sutured in layers and structures hich have been loo ened in osteoplastic work should be properly refastened Modern opera tions on the joints often require a method other than the typical resection if they are to result in the pre servation increase or regaining of mobility of the joint. The best approach is through a trans erse S shaped or flap inc s on Buttonhole incisions are to be avoided In doubtful cases the operation should be begun with incisions that may be extended In local d sease of the joints access should be had to the bursa The muscles and nerves must be spared Releasing of the belly of a muscle separation of ten dons and I shape I do asson of the latter are permissi ble O teoplastic temporary closu e of the joint is to be recommended and is a principle that may be ex tended Openings that damage the cartilage are to be avo ded A ticular ligaments should be pre erred when possible Too extensive deflections are as sociated with the danger of causing necrosi joint suppurations a departure from the rule is necessary

Great attention must be paid to the after treat ment. In general a med um pos tion is preferable to the final position (semiflexion). The shoulder is an exception. When the capsule is well preserved spine was obtained. In the third case an obscure lesion was shown by characteristic erosions alone the front of the bodies of the lumbar vertebra to be an aneurism of the abdominal aorta

These cases demon trate that in the investigation

of pathological conditions of the vertebral column it is essential to take anteroposterior and literal roentgenograms in every instance. As a general rule more information is obtained from the lateral than from the anteroposterior roentgenograms

ADOLDS HARTENG AT D.

Galeazzi R A Clinical and Expe imental Study of Lesions of the Semilunar Ca tilages of the knee Joint J Bo & Jo 15 g 19 7 2 515

Dissections and experiments on the cadaver and observations at operation have convinced the author that there is a close connection between the semi lunar cart lage and the crucial ligaments both

anatomically and functionally

The m hanism of rupture of the cartilages usually accepted does not explain many of the lesions. The tear of the internal meniscus near its anterior end is explained of course by the pull of the internal femoral condule against the counter pull of the tibial ondyle in inward rotation of the tibia I ith the knee a trifle flexed but it is not clear how the same tear may sometimes occur with rotation in the oppos te d rection how rupture of the anterior horns of both cartilages may occur in the same in pary or how both horns of the same menuscus may occur at once

In careful dissections the author has found strong fibrous bands connecting the ment ci with the cru cial ligaments in such a way that stretching of these ligaments might cause tears h of the meniscs. The crucial ligament and semilunar cartilages thus seem to form one functional u it which is hable to de tangement when motion occurs beyond physiolomical

hmits The greater frequency of lesions of the internal cartilage is e plained by the fact that a firm band connects the aper of this cartilage th the anterior crucial ligament and it is the ligament which bears most of the strain n abno m I degrees of rotation

In the author's opinion injuries of the crucial ligaments coexi te t with cartilage lesions are fre quently not recognized because of madequate open ing of the knee to at It has been sho a by e peri ments on the cadaver that complete to ring of the crucial ligaments often accompanies rupture of the WILLIAM A CLARK WD cartilage

Morton D J Metatarsus Atancus The Identifi cation of a D stin ti a Type of Foot Disorde 1 B : 4 J 13 2 97 5 53

Metatorsus atavicus is manifested by unusual shortness of the first metatar al as compared with the length of the second and by tenderness on deep pressure under the second metata sale ne form joint The subjective symptoms are of little all e be cause of the r ide aratio. There is usually

indefinite pain or discomfort in the front part of the foot especially after prolonged standing or exces ne exercise This pain may be burning in character in the early stages but after a callus has developed under one or more of the metafarsal heads it be

comes more acute and later changes to a dull ache Physical examination usually shows the second toe to be longer than the great toe Viewed from be low the ball of the great toe seems to be set back on the foot A callus is usually present under the ball of the second toe The characteristic clinical sign is tenderness on deep pressure under the middle cune form and the base of the second metatarsal.

This shortness of the first metatarsal is probably an atavistic te dency since the human foot has es ols ed from a grasping type of appendage in which the first digit was decidedly sho fer The condit a seems to be more p evalent in women than in men and is never encountered prior to ea ly adult life

When the second metartarsal is longer than the first walking stress falls more heavily on the second Anatomically the proximal or tuneil im articula tion of the second metatar at is not adapted to this strain. The vertical diamete of the joint is only half that of the corresponding joint at the proximal end of the first metatarsal and is very poorly pr tected against hyperextension. The symptoms result from irritation around the second m tatarsocuneiform joint The filaments of the 1 ternal plantar nerve may be irritated and cause referred

pain in the front part of the foot

The treatment should be directed a aust (1) the improper distribution of weight on the heads of the metatarsals and (2) the strain of the second tarsometatarsal sount. It may be neces ary in some cases to insist upon complete rest until the hyper sensitivene s of the irritated tissues is ove come More of the weight should be transferred to the first metatarsal The may be done by acq ining a slight toeing out habit A lift of leather and felt or in extreme cases of metal should be placed in the shoe beneath the head of the first metatars 1 This should e tend just beyond the great toe joint and should be just wide enough to support the first mets tarsal alone It should have suffic at theckness to cause the tirst in tatarsal to be eff cu e in be nog the body weight and of a ffic ent length to act as an extension of this bo e in the leverage action of the foot Radical urgery a not indicated

WILLIAM & CLARE ! D

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Payr Tje P esent Status of J int Surg ry (Dr h utig St d de Gel k hirog) St I t d d i k G f Ck B rl 927

With regard to the normal and puthologica physiology of the joints the author emphasiz s th importance of th) int as a pass ve rather than an active ink in the kin to chain. He calls attenti to the sensory and sympathetic ner e supply of th

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clean of these cases there was a complete cure or improvement bordering upon cure. At the present une a diagnosis of disease of the patellar cartilage cannot be made with certainty. The most dependable sign is a grating when the patella is pushed to one side. The roomagen my diadings, described to one side. The roomagen my diadings, described to the bone on the under surface of the patella—are too uncertain to be of value. The good results of the operation about encourage in the bone on the operation about encourage in when long and sarried on ervative treatment has not given the desired result.

Mor (Ace) discussed arthrodesis of the anthe spent by temporary estirpation of the failus. He has proved the value of this method. The talus is etupated and after the removal of its cartilaginous surface is replaced. The resulting anhylosis is brouse but functions well. Mau reported two cases illustrating them by roentgenograms which demontated the gradual resorption of the talus in a period who years. The operation should not be under the contraction of the contra

AFISER (Berlin Lichterfelde) discussed unihieral plastic repair with fair in the mobilization of Junts in cases in which one of the surfaces of the junt was in good condution he removed the other and concred it with fair. By this means he obtained good results in three joints—a hore an elbo sind a hip—which perasted as long as the patients were under observation (three and four years)

ALAPP (Berlin) presented a colored film showing the removal of the meniscus from the knee joint

(meniscus bipartitus) SEELIGER (Freiburg) pointed out the importance of determining the hydrogen ion con entration of joint effusions. He discussed the question as to whether and when a change in the jo at lubricant leads to a change in the ends of the joint in the sense of arthritis deformans or t e formation of free bodies The hydrogen ion determination helps less in distinguishing between acute and chronic Joint discharges than in determining whether the discharge will lead to the precipitation of synovial collo ds and changes in the ends of the joint or whether it will probably be wholly resorbed athout causing changes in the interior of the joint The method used in determining the hydrogen ion con centration is of little importance but the determina tions must always be made under similar conditions as the values must be comparative. Heretofore such i vestigations were of only scientific interest but eventually they may become of practical value in the treatment of joint discharges

Augusts repo ted new observations on the origin and result of necrosis of the epiphyses. He exhibited a se ies of specimens belonging to Pick (Friedrichshain) which showed anaemic infarction in

the bone such as is observed in the spleen and kidney. This condition has been disputed by others. There was no indication of trauma or inflammation. Axhausen believes that these specimens furnish new support to the theory of the embolic origin of epi physeal necroses.

The many many stated that in the treatment of infected joints we have returned to antisepsis. This consists in the introduction of the antisepsis. This consists in the introduction of the antisepsis colution into the closed joint castity if possible New antisepties are constantly being recommended. The best anti-eptic has been and istill is camphor ated phenol. Its introduction does not lead to at intrinst deformants. Experiments and later examinations show that the surfaces of the joint remains month. Herdin has treated their cyclic tasses of joint inflammation to the control of the joints have complete mobility, seven healed with ankylosi and two vere destroyed by sepais.

ERL'ND (Osnabrusck) discussed the late results of hip-joint model ng in osteochondrist cours juxenalis. Re examination of three cases showed that in one the desired result was not obtained but in the two others one of which was under observation for eight years the result was good. An osteochondrist which heals with marked deformity of the head of the joint must be operated on. If it is not treated surgically irreparable defects will appear later. Ho ever the operation must not be done in the early stage nor before the end of the nerved of group.

"BLECKLIARD! (Marburg) reported statistics on all nee cases in the Marburg surgical chime Two hundred and twenty five cases of chronic Line discussed were treated. Of these forty three vere tuberculous Excluding those of traumatic origin (chondromalacia free bodies men cus injury) only thirty three were certainly or probably non tuber culous. The latter were cases of simple chronic spin its Some of them were very problematical in a number of cases the pool of the non tuberculous nature of the discase was obtained by exploratory arthrotomy.

BRADES (Dortmund) spoke on the reduction of congenital do location of the hip. He stated that the central political of the head in not the correct one. The center of the acetabulum is opposite the Yelder only in infancy. Later the head usually moves somethat downward and the acetabulum lies be somethat to Jelft (d monstrated by reentgenograms). In live of 110 cases. Brandes placed the head too lov. in mineteen in the center and in

the remainder in the ideal position.

HERBIER (Wiecerburg), called attention to the fact that in the determination of the bydrogen ion concentration the carbon drovide tension must be taken into consideration. He is of the opinion that in arthritis deformans the reduction in the alkal in reaction of the synovial fluid is not primary but secondary.

and there is no contracture extension is unners arry. Were loops are less objectionable than annels or clamps. In from three to five days after the cess to fine the constant of the loop of of the loop

The except onal position of arthroplasty is emphasized \(\text{ weight it to be attached to the extension apparatus for forty eight hours Sometimes a combination of extension and a plaster cast is of value \(\text{ Listure and a classic exist is of value \(\text{ Listure and a classic exist is of value \(\text{ Listure and a classic exist is of value \(\text{ Listure and a classic exist is of value \(\text{ Listure and a classic exist is not truit in their is sometimize word in the text is a classic exist in the classic exist is sometime, when of a certain the learning are formed on a certain the lechange or the after treatment) of the lower extremeltes might bearing from the lower extremeltes might bearing from the lower currentless might bearing from the lower than the lower extremeltes might bearing from the lower than the lower extra classic extra consistent of the lower Since the headed of a plastic operation will not be fully evident before two jests patience is an excessing

Moist and dry's nootist following joint operations and artistative conditions are considered. Under treatment artistlessay phenol camphor artistlessay benol camphor irritants deep roentgenotherapy, and syno ectomy are mentioned. In the adhesive form of synowits there are similarities to pritonel adhesions. Constitutional influences the excision and plastic repair of the cansule and stiffening of rebellious joints are

discussed
In a special section the author spriks first of closed injuries of joints. In joint fractures a nonoperative attempt is perm libe. If the fails operation is to be done. The statement that the
special control of the con

Internal injuries of the line and the pathology of the menus are discussed at somewhat gir te length. The lateral liginorets should be autured or rep as edilastically with the use of the seminendinosis. The crucial I amends have the power to regenerate with regard to injuries of the menusus the remo. All of the auture its discussed. When disturbance of the menusus its certain a trabs-view and on the control of the control

the capsule as far as the lateral ligament should be made when necessary this may be enlarged by etnorcision behind the lateral ligament. In uncerta no or difficult cases the author a median S moision is best. For the external semiliums cardiage this has been maddled by Ruttinet to a lateral Sancisson

seen manuece by Australet to a lateral S-acrosso
Chondropathies parrial necross loose bodies (in
the removal of shich the hed also should be removed) and desclase of the fast hooles which seldon
require excusion are discussed briefly Chronic
town on the upper recess of the here gost follow
from the fast of the property of the services of the
The various method by the excusion of a so loss
The various method by the excusion of a so loss
The various method by the fast of the parella are
described and cases are reported. The parella are
described and cases are reported. The parella are
meansure Amphitathrons and final joint often the
meansure Amphitathrons and final joint often the
universe through the property of the parella are
meansured.

In open unjuries of joints excession of the soft parts and suture of the capsule is the rule. Of of a such in juries 600 healed by primary intention. Antis pur prophylaxis is discussed Infectious arthritis calls for wide opening only when the joint is destro ed Functures and irrigation or drainage at the right spot are often sufficient. In acute gonorrhoad in flammation Bier s passive hyperam a or exploratory puncture is necessary Chronic and infectious a thritis and granulation tumors are mentioned briefly In the chronic non niectious; intlesso sol primary and secondary arthrus deforman a ex tensive plastic operation (n the case of th hip Hildebrandt's modelin arth oplasty) and in hamarthrosis roentgen ray treatment come under consideration. The osteotrophop...thies and chon d otrophopathies of Perthes Ko hler Kienboeck and others do not require operation in the early stage In Payr's op mon they do not originate in dodms basid

With re and to ankwlos s the question of mobilization is touched upon b selly. Particular care is necessars in tuberfullous joints. Ment on is made of the fact that it is sometimes more difficult to suffer a joint than to reader it movable.

Regarding tumors of the joints Payr points out that care; oma metastases in the neighborhood of a joint may be my taken for arthritis

In conclusion congenital deformities (d loca tions defects ankylo es and contract ons) are di cussed

Following Pars spaper LERENS (Valutura) divided of persons for chandropaties of the patella He stated that he had already shown that the cat talganous changes in patellar chondrop these on epond asstologically to those of arithms deformated and thou, that are frequently persons in the patell in ad anced age. It is the refore postifiable to the model of the patellar of a completely of the patellar of the patella

valuable not only as a mean of preventing deform ity but also as a means of diminishing the activity of inflammation

Hecautons again. I fixing any joint in an extreme position. In case, with severe muscular spasm tensioms or partial neurectomy may be done. In the treatment of arthritis the relief of the pain is the most important object. All of the methods merioned may help toward this end but often fastion of the joint by operation is nece a.

First among the surgical method used to improve function is man pulation. This is done to correct an existing deformity or to increase the range of motion in a joint. Man pullation to increase the range of

motion is safe only during quiescence of the disease In certain cases the removal of osteophytes and imming down of the margins is of value. Arthroplasty for arthriti must still be considered in the experimental stage.

HOWELL recommended the surgical treatment of difficult cases

Low discussed cases of multiple arthriti following disentery ROBERT C LOYERGIN M D

Kroh F Ligament Capsule and Cartil ge Se en lea s After Fastening of the Head of the H merus with Strips of Fascia (Ba i k p l wid kin pil j Jahr nich si teg h bite le l g des Obr mkopf s d ch i se e t te j Z i W f Ch 927 l 344

The author reports the case of a 28 cero foll patient who no pears previously sustained a discauson of the right shoulder. As his recurred sterell times inter attended fastening with strips of fasca after the method of Joseph was done a year for the following the foll

The strps of fasta which were found at the operation connection the upper external tuber to of the humerus with the r m of the glenoid cavity formed a tense strand about 4 mm th Ck bit he smilled a tendon. The symoval membrane was must at and showed no trace of inflammat ry reatten. The normal joint cartif ge showed no trace of a secondary following with the strand product of a secondary following arthur the strand product of a secondary following arthur the strand product of the

The objection hitherto is sett against int a articular faste ing-that in the outer of it me the transplanted ligament will be reported and a second dy deforming arthritis will essit for moreign body intation—wa entirely refuted in the case Not only 4 de the joint remain normal but the irr splanted fascia was changed into a tend in us structure.

Detail of the property of the prop

Campbell W C The Stabilization of Paralytic Feet 4m J S & 1971 6

The operation which is the subject of this art cle has become generally known among orthopedic

surgeons as Campbell's bone block. It is done to prevent foot drop from infantile paralysis and other cause. The technique is as follows.

The posterior aspect of the astrajalus the ankle joint and the superior surface of the oscalies are expo ed through an inci ion parallel 3 in the tendon of challes I fit he tendon; contracted a tentotom is done. The posterior wall of the astrajalus 1 in eled off and a cavity chiecled out of the top of the oscale. A bone graft from any part of the skele on preferably of spongs bone is then sunk in the cavit; and allowed to project up vard behind the ankle joint. Chips of bone from the os calcus are pile to up of the graft, the mass being built up be up the contract of the contract of

The operation differs from all others for the same purpose in that no suspension of the foot by tendons

or silk ligaments is attempted

In the past five years Campbell has performed it in 13 cases When necessari the calcance astra galar joint was fused to correct lateral deformity of the foot. In some cases it is necessary to five also the calcaneocubord joint. After such fusion operations the demoded bones should be approximated snugly together to prevent the formation of dead spaces. Mer three ecks it is use to remove the cast and to determine by roentgenogram whether bones are in clos apposition. If they are not they can still be forced together under anxisthesia and a ne cast apphed

The indications' for the operation are simple foot drop partial foot forp in which the mid tarsal joint is usually stable rigid equiums equium avaise equium value fail foot in which it is in dicated as an adjunct to stabilization of the mid dicated as an adjunct to stabilization of the mid the extension longus digitorium to the trail tension the extension longus digitorium to the trail tension and spastic contracture of the ten ion of Archilles It is seldom indicated before the eighth vaer of age.

Of 104 children treated by this method seventy six were re e amined. Of the latter seventy one showed the bone block effectively preventing plan tar flexion

Failure of the operation may be due to too carly di carding of the cast trauma to the tibus causing union of the graft with that bone and resulting in stiffness of the ankle and tetanus infection in chil drea who have gone barrefooted

Of 09 adults subje ted to the procedure eighty six vere re e amined \succe sful result was found in eighty three

The result of the operation is considered definite in six months. In some cases in which the roent g nogram sho ed sufficient bone growth the block was not effective because of incomplete union or tunion with wrong contact.

As is true of all other operations for paralytic feet the chances of success increase with the patients age

BREITLAEVDER (Rostock) reported an unusual case of osteochondritis dissecuts in the ankle joint. The diagnosis made before the patient entered the clinic

was tuberculosis

RITTER (Graz) cited a report of the experiences in the Accident Hospital of Graz with regard to in juries of the crucial ligaments which was published in the Deitsche Zeutschrift fi er Clivurgie (Vol cc p 401) The material with which this report deals has since been preatly increa ed and permits the conclusion that the torn crucial ligaments do not always regenerate of themselves. This was shown in the case of a patient who refused to allow a plastic operation and who r ma ned under ob erva tion for seven years The anatomical findings at op ration also make the spontaneous receneration appear unlikely when only a small remnant of the anterior crucial ligament remains. Important for the nourishment of the crucial ligaments and hence for their regeneration is the arterial supply which radiates chiefly from the arteris genu media in the popliteal space. In tears of the anterior cruci l ligament it is often sufficient to suture the anterior remnant of this I gament to the posterior crucial From experiments on the knee joints of sheep it appears that not only restoration but also a differentiation of the two ligaments occurs

SCHANZ (Dresden) emphasized that a para art cular operation is often preferable to an intra articular operation because functional restorat on is often more important than anatomical restoration With regard to arthroplasties he mphasized the importance of Careful after treatment. In hip toint operations the model ng of the head is not of great importance as the head works down of itself and becomes atrophied Even when the head of the femur is missing an attempt should be made to

ROEPKE (Barmen) reported on the and n s at sub equent examination in the three cases of tuber culous joint in which flaps of fat were interposed in 1914 The results in all three joints (two knees and one hip joint) were good. In mobilizin, the knee joi the proceeds with the utmost caution H bas obtained good results in postgonorrhoral ankylosis and in arthritis deformans

In clo ng this discussion Payr repeated that after a throplasty he avoid p ssive movements He discussed al o the various conditions of re generation of the crucial and lateral ligaments of

Stert1 2 (2)

the knee joint

Reddard A P P ge C M Eimsi R C Hon II W and Other s Di cu lon on the Surgical T eatment of Chronic Non Tuberculous Ar thriti Pro R y Soc M d Lo d 9.7 xx

BEDDAED stated that rheumatoid and poly a ticular osteo arthritis a e due to a low grade epticamia and are comparable ith gono hard rheu matism the joint changes being primarily infective He d ubts hos ever a beaber this is true of mon

articular o teo arthritis in which although there is generally an inf curve element other factors also are present He believes that the micro organi m con cerned is the streptococcus longus and that this is more often of the viridans type than the hamolytic type The primary ites of infection are the t eth tons'ls sinuses abmentary canal (including the gall bladder) the male urethra and the uterus When the primary s te is in the uterus or the ali mentary canal the results of treatment are very unsatisfactory

In early cases of rheumatoid or polyarticular osteo arthritis medical treatment g ves fairly good results It often arrests the provess of the disease and renders the joint fairly useful even then there

15 slight deform tv

PAGE gave the indications for op rative inter ference in chronic non tuberculous arthritis as (t) derangement of 1 int action secondary to the dis ease pro ess (2) joint pain and (3) pro resulte defor nty

In the treatment of arthritis of the h p io at the operations performed are arthrodesis arthroplasty and partial excision of the head of the femur lage rega d'arthrodesi as a favo able operation

Even when ankylo is is not produced it relieves the articula nain

In arthroplasty fastia lata s used for interpos tion In none of the cases seen by Pa e was a fall range of motion obtained and in some of them the c was subsequent pain.

Followin partial excision of the head of the ferrie the tab hty of the joint depends uno the amount of the head and nec that was remo ed The; t is usually movable but there i limits or of abdu tion. Platt ha repo ted re urrence of pain after this operation

Lage ad ocat s Murphy s method-a U shaped incision around and belo the great trochanter followed by the removal of the great trocha ter a d attached m scles to secure entra ce to the jo at

For arth itis of the knee which i more commonly the site of noticeable osteo rebritis cha es than any oth r joint lake advises syno ectomy whin there is chron c thickeni of the s novia in cases (advanced di ea e simple exci ion of the) i ! is the be t treatm nt

Operati e procedures on the ankle and ta al joints are unsatisfactory because fixation of one joi t recessa ily impo es a strain on the eighboring

jos is not so treated

In the elbow arth it saf q ent sequela of in jury Arth oplasty go er the best esults rendering the sor I fairly useful.

For arthritis of the carpus Pa e sug ests the re moval of the poximil to f bo e

ELM LEE sais The u e of mo t forms of hio i s thr ti remans for the mot prt in the depart ment of the physician but the g cal princ ple rest for inflamed stru tures requires moh s The use of extentions splints and plaster of Pan catts ctive penod of the deale is dutin the mor

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Lewis D Lesions of the Blood Vessels of the Extremitles So th M J 1927 x 4

In artenosclerosis the principal chan es occur in the intima and media but in advanced cases the adventitia also may be affected

In support of the statement that acute infections

are of considerable importance as contributory fac tors in some of these arterial lesions Lewis cites Eichhorst's case of gangrene of the leg developing during scarlet fever in which when amputation was done intimal changes to the extent of separation of the intima from the media were found in the arter ies Similar changes have been reported in cases of death from typhoid fever

Generally in acute infections the most marked

thanges occur in the media. In diphtheria typhoid fever and sepsis the muscular part of the media is m st affected In another group of infections scarlet fever and sen is the changes in the elastic tissue are not so pronounced consi ting in a loss of nucles 1th death of the muscle fibers an increase in the intermuscular connective tissue and the appearance of a homogeneous ground substance

Mesarteritis and not endarteritis is the charac tensite change in acute infections After this change there are three possibilities as to the outcome (1) complete repair within forty days (2) the formation of a scar which may be found years afterward and may cause no functional di turbance and (3) the development of a definite arteriosclerosis the path olorical changes of the media extending into the intima and the arteries losing their distensibility and resilience and to some extent their contractility

Old age alone and hypertension alone do not always account for the production of vascular sclerosis as there are many old persons without artenosclerosis and many cases of artenosclerosis in persons who are comparate elv young Morever hypertension and arteriosclerosis may each be pres

ent without the other

Artenosclerotic gangrene begins at the extremity of one or more of the small toes and passes on to the foot or even to the ankle or leg In spite of all treatment it is usually fatal. In most cases the patient feels great discomfort th oughout the foot or ankle particularly during the night e en bef e there is more than a small disc lored spot on the end of one of the small toes Infection cau ed during the pann of a nail undoubtedly has something to do with the extension or development of the gan

In diabetes there occurs a typical pe forating el er not associated with tabes. This is usually located on the sole of the foot just back of the

head of the fourth metatarsal bone. It has callous margins and is deep and crater like. Its develop ment may be slow or rapid. It appears at a point exposed to pressure. Hyperglycæmia alone cannot be held accountable for the causation of diabetic gangrene as there are many cases of severe hyper gly c.emia over a long period in which gangrene does not develop. The gangrene of diabetes occurs at an earlier age than sonile gangrene

Thrombo-an utis obliterans is a clinical and pathological entity with thrombotic occlusion of arteries or of both arteries and veins. The thrombus formation follows inflammation of the arterial wall Canalization of the clot permits enough circulation to supply the need of the tissues of the extremity Injection of the vessel after amoutation for gangrene shows that in thrombo anguitic gangrene collateral circulation has been established whereas in arterio sclerotic gangrene there i no collateral circulation The pain in thrombo angutis obliterans is due to the occlusion of the nutrient artery of a large

The author quotes from the original description of Raynaud's di ease Raynaud's prognosis is as follows

The progress of the malady con titutes an ele ment of prognostic importance. When ten to twelve days after an invasion of the severe pains one sees black dry slough form symmetrically on the extremities it may be hoped that the process of mortification will soon be arrested and that after a period of elimination the duration of which will not e ceed four o fi e months the cure will be complete If on the contrary the tendency to gangrene is less clearly shown if we observe only cooling cya nosis and bulke returning from time to time with or ithout periodicity we ought to fear that the ma'ady may be prolonged a considerable time and th form although it may not immediately com promise life is nevertheless the most grave because it renders life mi erable from intolerable suffering and opposes a permanent obstacle to the accomplish ment of social duties INTROLY F SAVA M D

Mo ice and Auvray Autogenous Vaccine Treat ice and aurray Autogenous laccine Treat ment f r the Pre ention of Phiebitis After Ily terectomy for Fib omata (Du trat me t pé ti de philb tes ap è basif ect mies pour hi mes p les ut acci s) Bull t mém S i d ch 197 l 517

Cultures of the mucus from the uterine cavity of fourteen cases of simple uncomplicated fibromata re ealed the presence of treptococci On the basis of this hinding the authors concluded that the phiebit's following operations for fibroma may be due to these organisms and conceived the idea

The advantages of the author's operation are that it is imple all braces may be discarded muscle power is conserved the pre ention of overstretching may induce the return of pover in the antenor muscles and the rocker motion of the ankle joint is conserved. WILLIAM A. CAIR V.D.

WILLIAM A. CAIR V.D.

FRACTURES AND DISLOCATIONS

Hansson k G and Birrell R G The After Treatment of Fractures About the Elbow Im J Sirf 19 7 u 13

Of 828 fractures treated at the Hospital for Ruphured and Crippled New York 200 involved the elbow Fourteen of these required open reduction In five there was nerve involvement in two myositis ossificans and in one case a complicating arthritis

The method of acute flexion for fresh fractures about the elbow is now so well known that few doctors hesitate to treat such fractures. The after treatment however is little understood

Of the patients whose cases are required about 50 per cont did not come for after treatment until a month after the fracture. Such delay renders protonged freatment meets any 1 the cases of patients coming for treatment during the first three weeks the average unmber of treatments required was 17 5 whereas in those of patients coming after a month the average number was 13.7 the manufacture of the average three was 13.7 the first functional result is better the earber the after treatment is been the first functional result is better the earber the after treatment is been to be the first functional result is better the earber the after treatment is been to be the first functional result is better the earber the after treatment is better the subject to the after treatment is better the subject to the after treatment is the first functional result in the first function of the first function o

The after treatment should begin as soon as swelling pain and muscle sy asm have disappeared usually at about the end of the second week. It should const t in the use of external and internal heat massage and exercises

In the authors cas s heat is first applied in the torm of a bot whirlpool bath. After a week of this treatment dry heat is applied by means of a carton filament lamp with a reflector.

Diathermy al o is used either with an electrode on each ide of the elbow or with one abo e and one

below the elbow

Massage is important. It stimulates the circulation aid the flow of lymph and teleases adherent tissues A proper touch is preferable to gre t strength. The patient should be in the recumbent position during all in a sage treatments. If the m ssage causes a protective muscle contraction it is too vigorous.

Active therapeutic exercises are begun after the first week. Passive exercises especially i hen lore ful are unphysiological and hive no place in the treatment of elbon fractures. After active most in has been well started it is done against resistance. Finally the patient does exercise on apparatus using his body, weight as resistance.

From a practical standpoint treatment eas usually be given once a day or every other day that is about one hour of everises and treatment is twenty four or forty-eight hours. However, as sonas immobilization is dispersed with the putent can carry out the evercion e ery three hours at his home.

Massage around the callus is contrained atch because it may produce excess e callus or even myositis ossificans

Even when the best methods are u ed the results are poor in about 10 per cent of elbow fractu es William \ Clark \ D

Carp L Fracture of the Fifth Meratarsal Bone is S g 1927 | xxv 308

Carp reviews twenty-one cases of fracture of the fifth metatarsh bose. Despite the fact that twenty of these were in adults with normal blood-as camalia s and a negative Usssermann reaction union va delayed in twe. In all of the cas s followed up the clinical swriptions per tisted so long that some interference with bon repair was a sumed. The avera period of disab liv, was ten week?

The slowness of un on is probably accounted by the poor bloot surply of the fifth metatlard bone. The treater of a larged is immobiliation in posterior model's splint with early physiotherapy and if possible wer bit bear ng in the cast below one month in order to prevent bone strophy in the cases of children between the lee it has districted by ears of a e care must be taken not to mustake the cg physics of the tubero in few frictives.

asy increase in the calcium content of the blood in the various vens over that in the upper extremities On the other hand. Widegans found in the various vans in agreement with klapp an increase in the residual nitrogen values to gingmiper 100 c.c.m. an anomaly in the breaking down of albumin which must be interpreted as a regional di turbance of metabolism.

Of the products of fatigue the most intere ting; later and of which when the body is at rest the remost blood contains about 14 mgm per 100 c cm whereas in various evens this value is increased three fold Wildegans regards it as entirely possible that a surplus of later and 13 sufficient to destroy the qualibrium of the colled a system. Thromboos is not a chinacle entity but the result of various local and general dr case conditions of the blood and cruthly or system.

The results of these investigations indicate that the intricate and often interdependent physical and chemical differences in the composition of the blood

should be investigated further

In the discussion of this report NIEDEN [Jena] stated that also in the Jena Chini chere ha been an alterase in the incidence of embloid in In 19, 3 there are right cases in 1924 six cases in 1924 six cases in 1924 twenty one cases and in 19,6 thenty six case. Pot operative embolism has all o become more frequent in 1913 there were four fatal cases in 1924 five in 1913 six and in 1926 thritten Thi in cease is a thinbuted first to the more frequent intravenous spection of lrugs and to the admini tration of blood spection of lrugs and to the admini tration of blood spection of lrugs and to the administ ration to the one of the same transitions.

into considerat on at Jena Neither does the type of anasthesia (general or local) offer an e planation. The cause is perhaps to be found in the increase in

severe chronic i ju ies to the blood vessel due to the increased incidence of gr ppe

SCHOUNALER (Venna) called attention to the cose relationship between blood cosquitation and thrombos: The infrequency of thrombos is me the portal crustiation induced him to compare the cosquisition induced him to compare the cosquisition time of the blood of the portal crustiation induced him to compare the cosquisition time of the blood of the vens of the extrem test that the time was fourteen musters in the former and that the time was fourteen musters in the former and the latter of the cost of the co

Ao SERIEW (Freducing) cited the investigation of skibol according to the cited of skibol according to the cited play a definite rôle in thrombit of the cited play a definite rôle in thrombit of the cited play a definite rôle in thrombit of the cited play in the important factors essent al for it ecurrence are a slowing of the blood floy and icoming of the continuents of the plasma Of the importance bowever is an increase in globulin with as al ays occurs after operation. Therefore meaning the cited play and the side of the cited play and the cited play and the cited play are a favor ble effect for as a real of the flow from the tissus is there occurs as real of the flow from the tissus is there occurs as

increase in albumin and thereby a decrease in the globulin. An increase in albumin and a decrease in globulin is produced also by infusion vith Ringer's solution.

MARITA (Berlin) reported an increase in embolism also at the Bier Clinic in the past twenty vears One hun fred and fifteen cases of emboli in were ob erved in the period from 1097 to 1977. In 1977, there were only six whereas in 1924, there were ten. The Trendelenburg operation was performed in four Trendelenburg operations was performed in four large of the embolism throughout the entire lung maritim was unable to say anything regarding the origin of the condition except that it is not determined by the seventy of the operative procedure.

STETTIVER (Z)

Streikov S. Studies on the Collateral Circulation
After Ligation of the Innom nate Artery (Zur
Lehe mk ll te al. Kre la fnachStule ueber
d U te b d g der Vtera a o yma) P ky
m d r l 9 6 Supp 1 1

This is a report of the anatomical experimental and clinical findings following h ation of the in nominate artery. Inve tigations on human cada vers and on living dogs were made fir t to de termine the best method of approach to this artery The methods so far devised fall into three groups Repre entat ve of the first group 1 Dietrich I irogoff median cervical inci ion from the cricoid cartilage to the manubrium The second group is represented by the Graefe Bujal kij lateral incision along the right sternocleidomastoid In both methods a more or less extensive resection of the manubrium is often necessary The third method-the Schevkunenko L sizin procedure-is a wide flap inci ion on the thorax with the base of the flap upward and the formation of a triangular bony flap from the sternum When the flap is rai ed upward the anterior medi astinum is easily accessible

The two first methods which are simpler and cause less traums are sufficient for simpler con dition especially when the arterial branches come off from the arch of the aorta close together. When these branches are separated or there are other peculiarities cau ing difficulty the osteoplastic method of Lissaya in preferable.

For the study of the collateral circulat on a fee ligation of the innominate artery the author use twenty five dogs. In five systematic blood pressure rea ling on the common circular sterver made. The e-showed that on ligation of the innominate and the carotid prior mall to the cannula the blood pressure at first sank very low but after two or pressure at first sank very low but after two or pressure at the standard the compant blood pressure. The latter is applicable that original blood pressure of the collateral circulation which we do for pressure of the collateral circulation which we have a poper circulation in the sufficient of man fails as poper circulation in the sufficient of the first the standard to the cannula the blood pressure curve appeared as a straight line for the first two munites and small

of preparing an autogenous vaccine for its pre-

The cultures were taken with the greatest ce to prevent contamnation from the cervix as a vagina. In every case pure cultures were obtained The organism seemed to have a loner viality and a lower wintlence than ordinary streptococci retembling in this respect the organism of purificial blung in this respect the organism of purificial blung in this respect the organism of purificial blung in the respect to the ordinaries with great the contraction of the problems of the prob

Brown G E Po top rative Pl leb tis A Clinical Study 1 ch S g 1g 24

The disgnoss of postoperative philebits is to frequently based on insufficient signs and is implement. The usual basis is the presence of pain or soreness in the leg. Fust localization of the tender or painful area will usually indicate whether the veria is the site ender to updation were noted. In these these were fairly in Himited Frequently the very use palpated as a firm tender could be found to the control of the cont

The diagno is of phlebitis has more than an aca demic interest as many days of additional time in bid may be prevented or more rigorous treatment

instituted if the diamensi is certain

Pulmonary infarction is a common complication while fixtal pulmonary embolism is apparently rare. This verifies a surgical impression of the ristitute asters of philotism. The explanation in must rest on the lact that phlebitis is an inflammatory 1 on. The lock as firmly statched to the wall of the vent and course of the statched to the wall of the vent and ments are thrown of and become lodged in the periphery of the fump producing a sharp reservant in the parenchyma with resulting pleutius and signs and a symptoms of localized bronchopnecionnum. In cases of fatal embolism the disologied thrombs are larger frequently long segments are d. I dard and curried to the lung. The attachment to the #31 of the vent is in occur and their disologients.

Further evidence of the probable essential differ enc in the nature and behavior of phlebitis and total embolism is shown by their s asonal incidence The inciden e curve of fatal p imonary emboli m eems to follow roughly the cur e of the surpical entrants Phlebitis suggests a seasonal i cidence similar to that observed in duodenal ulcer Sprin and fall col is and infections of the upper resp atory While the patholone l tract may be factors appearance and lunical course of phiebins sugges & an infectious or in the bacteriological agent has not been proved. In a series of case of idiopathi superficial phiebitis culture of a portion of the i flamed vessel and its contained of a resulted n ca No correlate h s be a d monstrated be tween phiebitis and th pat ent's age eight or systoli blood pressure fact is which seem to play a

contributory r le in embolism as sho in by H π is son and Snell

In the eighty siven cases of patoperative plabelitis which were studied by the author them is characteristic diagnostic sign was a local red is characteristic diagnostic sign was a local red i discussed of the affected with The I tenence of orderna is equi ocal "ulmonary infar tion was a frequent completation but the way was no i as re of fattal pelimonary, embod im the comparation of the seasonal in cleance and pred sport in a factors in philebrits and pulmonary embodies and served the factors of the factors to the research the factors to the factors to

Wilder as The Olgin of Treembosi (Ztlith h g de Th mbo) st T f d d i k Ges f Ch Berl p 1927

Changes in the pe i of the blood circulation and injuries of the walls of the blood vessel if not sufficiently explain the or gin of venous the mbo is Up to the present time the phy cal and them cal factors have not been given sufficient convieration Induced by the frequency of thrombi in various verus Il il legans attempted to determine heiber there are differences in the renous blood of the upper and lo er extremities. The comparative studes of the blood showed almost in anable in the varico e veins a local hidrem a in criema fite blood (the water content in the ba abe sein averaged 79 2 per cent and that in the var cose vein 2 per cent more) This local hy I emia a umes a partiru lar s gnif cance when it i borne in min'i that with every thinning of the blood result og fr m the ab sorption of fluid fr m the t sues there is an increase in the coagulability of the blood When there is over salting of the blood by the intra en is in jection of hypertonic saline s lation we in he hyperamis in order by th hydremic pl th ra to imi rove the coagulability by the influx of hiper kinase Coagulat on of the blood and thrombos are therefore e. entially similar but dill r in that thrombo is occurs with a mor or less unchan el blood stream whereas congulate n of the blood occurs h n there is a stopp ge of the fl w

In experiment on a male it was possible to proce accessionals c golds on by the intratensainjection of aborn and the mbola see Comparitive is vest gations of the Thompson and it may be the litter a moderate and statement which are the litter a moderate and the contraction of the them is the moderate of the contraction of the pint cultiraction of the blood I the various venture to the lation factors. Moreover it was impossible to find ne cas stans is being tried out at the Mayo Clinic a der controle I con littims. Walters has been in terre el in the u e of thiroid attract in this con section and has recently reported favorably on its

Pulmorary embolisms following operation seems to be a more common cau, of death in the cases fee gatte is than in those of patients of a craze of the Whether this is lue to the age of the state they of operation performed unknown futors related to the flow and coagulation of the bod or obe tive none be lefinitely stated.

To macons leather of state of the macons leather is at the created by Henderson at cems probable that there is a roupe of obese patients more than 30 years of a with an imal of such a roull flood pressure as a patient with a round of the state of the s

Harder P and Lem ire A Information Furni hed by I lpi of 1 Exploration in A tertite of the Lower Externities (K. g. f. f. pxt 1 g at n 1 g 1 lee d. d. i efrit. 1 pm fr i fer ured) B 1 pm fm \cdots med d hop d F u y 1 448

The auth rish a the opportunity to stuly furteen cases of artentis of the lower extremities 1 mens of h lingetin as suggested by Carl Info cases there were olinerative le in of the after the gangene for if the cliter came to aut py to effect the state of the after and the work of the state of the state

The technique use I lifere I al ghil from that I at I Dreet juncture of the artern wa lon at the trival arch with ut pre a un urgical eage of the crisel I he juncture was directivel. I also I the patient in an arche I juli in will the pel a travite for a pillow and the thirth I bith I turter a I relectional I have a large in the period was used and the only performed was used and the only performed was used and the only performed and result in the rule of I always may be a supported as the rate of more release and another truther I always and results are the supported as the rate of more release and another truther than the supported as the rate of more release and the supported as the rate of more release and the rate of the release and th

I tre t f r a small harmat ma t the t f the r ett 3 13 one case whi h wa quickl resibe! to local accident were ther eil en in the a es damls ette In one prittent ging a: * 1 3 eg tidassafter the in ecti n but th pat ent t years fage in wh m ga gren had bee immi cetfre on the nlintle othe growth tam wints penit! Dier et the enactaged belong green Era siel nes t g gs gr Th rat e of tum fet a fthe theh ant ! of the keg as sat n fte TT 2 VC 7 47 Delecation erat to win tim the extent a in 1 th pear f ti I meet to ex I some cases then a m o mel in se eral stages. As a rue it a were

note I first in the thigh an I several days later in the leg

The reactions began on the lay followin the inpection and disappeared spontaneou ly in firm neight to fifteen hours. Their intentity was not proper tongle to the amount of oil inpected but cerned to depen on the tate of the vaccious visitor. The control of the control of the control of the control oil and included and in more metaled in the soung in whom more complete and saiden obstriction of the arterial felds occurs.

When there was obl teration of the artery arre t ing the lipiodol in its path the lip od I seemed to remain f ra long time. In one case it was een un change I one year after its insection. When the arterial's stem was permeal le the oil di appeare I with urprising rate its. If the injection a made in the patient s room the oil may have I sappeare it the time the patient can be I rought to the \ ray r x m Theref re the injecti n sh uli be made before the screen and the pr gress of the oil et erve I fluce se rically or in serial plates taken ey ry fifteen min utes. I ven in old arterioschentics, the I sannear and of lirg I e rarely requires mire than an h ur The happearance is not fue to absort to a or to the 13 uge of the ol into the venous vatern The ir pi ts ma be cen inf ed bits of skin stare ! with mic act! They are four! to occur, the capillaries. The plu ging f the arteriole is riely ably the c i e of the reactions

In n n of literate I arteries the test un fer eli eu sion cann t be ub tituted for other methods of in vest gutt n. The evidence it suffles is very vari alle. The results ma be uncertain because it i never po il le to be sure that the branch of the essel to be explored will be filled. The injection mu t be made a low fown as po the In arterio I to 1 th anscular le 1 na are shown clearl at the le I of the firest arten les better than can be tem astrated by I section. Their cal ber is un equal in a me place they are fliform and in others il ted The continui of the sha low s often irter rupted this interrupt in producing a bea ! I at pear an e and presents g the mo t striking the les as of en larientis. The mit valuat le fal ingo are bia elin case of arteritis with ell tera tion. There con titute the onh the ir cation f e the method. The procedure makes it pos lie to s tingui h between gang ere lue to arteri le la structs a with preservati a of the pri ci al tru k a I gangrene in which th tru ki o tr ct 11 1 the arter 'es are free a so to der fe on al ch or low arr utat n I n M Ziwei wi M D

BLOOD TRATSFUSION

Sony J W and Moise T S: A M third for the Determination of the Co cill tion Time and Retraction Time and the Black J La L

A me e method el ue em gibe ecamust i me e treb sod was desue!! ruseines erm al irregularities in the pulse (pulse waves) first ap peared at the end of that time On the other hand when the same experiment was repeated the pulse waves appeare I sooner and on the third repetition of the experiment they became apparent immediately after the closure of the afferent vessels. Evidently there occurred at the time of the first experimental ligation a considerable widening of the collaterals so that thereafter they were capable of functioning from the very first moment of closure

The anatomical studies of the collaterals under d cussion were made on the cadavers of the dogs which were killed at periods ranging from one week to two years after the ligation of the innominate artery These studies were made with d ssections and roentgen studies of the vessels filled with a contrast medium and roentgenoscopy during the filling

of the vessels

In one case the formation of a large new yes el was seen near the ligation. In the first two months numerous fine collaterals were formed and in this process even the vessels of the kin took part During the next month the large vessels of the opposite side underwent considerable enlargement and after eight or nine months broad collateral vessels were formed on this side. The widening of the collaterals continued for eight or nine months after which it seemed sufficient for the rest of the

animal's life (at least two years) With regard to thrombus formation in the ligated arteries the author noted that even in asentic wound healing it varied according to the degree of reaction on the part of the crushed inlima and that when the ligature was placed near the bifurcation of the in nominate the thrombus sometimes extended into the left carotid artery Strelkov did not see any

vascular emboli in his experiments

He concludes that the ch el pathways of collateral cir ulat on after ligation of the innominate and the right carotid arteries are the superior thyroid the vertebral the ascending corvical and on the right

si le the intercostal arteries

The chascal part of the report is based on a review of the literatu e Up to 1022 Strellov was able to find seventy cases of I gation of the innominate artery th twenty four cures and forty six deaths Of the cured case three nere operated upon by Russan surge as Herzen Parin and Juckel on Simultan ous I gation of the right carotid does not appear to influence the prognosis but when simul taneous I gation of the subclavian was done a cure was obtained only very exceptionally PETROV (Z)

Henderson E F Fatal Pulmonary Embolism A Statistical Re len Arch S c 1927 x

The incidence of fatal pulmonary mbolism among the surgical cases com og to autopsy at the Mayo Clinic during the last ten years was 6 per cent Patients who die from pulmonary embolism are older than the average surgical patient and are some that overweight. The hand a normal or

somewhat subnormal blood pressure and man of them develop postoperative infections

The importance of the operative procedure in determining the site of thrombus formation and the occurrence of pulmonary emboli in cannot be a ce looked Other factors are the patient sage weight and general condition the efficiency of the circula tion the bodily inactivity incident to the operative procedure and infection

Snell A 11 The Relation of Obesity t Fatal Postoperati e Pulmonary Embolism 3 \$4 233

Snell reports a study made to determine the cause of the increased mortality of obese patients and the measures necessary to reduce it This involved a comparison of the causes of death of obese patients with those of patients in a contr l group who died following operation during the same period of time

In all cases of death after operation during a period of six years (1920 to 1925 inclusive) the pa tient's history was studied. One hundred and fifty six patients who died after operation were definitely obese. Autopsy was performed on 145 of this group. In the cases of the ele en others the clinical cause of death seemed sufficiently clear to permit their inclu ion in the group

The h gh incidence of pulmonary embol sm as a cause of po toperative death of obese persons suggests but does not prove that obesity increases the hability to this much leared complication. The average are of the 156 obese patients whose cases are re sened was 53 years a fact which emphasizthe relation bets een age an I pulmonary embolism previously noted by Lindsay and Lister Difficulty in the operation with unusual traums may be a Mild circulatory failure with resultant senous stas s may al o be more common in obespersons. After an operation on an obese patient there may be an increased I beration of thromboplastic lipoid substances such as ke halin due to the extensive areas of fat invaded True fat embol sm however occurred in only two of the cases re newed

In the interpretation of the f regoing data it must be bo ne in mind that there are no stat ti's ith re gard to the mortality and causes of death for par ticular operations according to a e groups statistics would be a much more actura e co rol than the whole group I patients of all ag s con sidered without respect to the t pe of operation An analysis of the outcome of serious and extensi e surgic I procedures on older patients mo,"t show a high uridence of fatal postoperati e pulm sarv

Obser ations on the art risk and enors pre sure and the rate of the c reulation and studes of the peripheral blood flow a uld probably shed light o circulato y stasis which is gener ily recomized as an important factor in the de elopment of embelism At the pres at time a definite regimen des goed to improve the general circulation and to combs

resi tance of the cells is expressed by a frequency of distribution of Pearson's Type 2

The simple harmolytic system includes most of the harmolytic glucosides the soaps and the salts and acid allied to the bile salts. Most of the lysins of batterial ori in also belong in this class

An inhibition of hamolysi may be obtained by adding serum to the system. The lysin unites vith the serum protein forming a non hamolytic com

pound and lysin is removed

Steen coming sodum taurocholate sodum procedulate or certain of the soape differ from those containing sponn the glucosides or batter and herolysis. Whereas these reun protein always inhereast the serving protein always inhibits the action of saponin the serum proteins atter inhibit or accelerate the action of the ble silts accord o to the order in which the components are mixed together. Thus in the cell emuly was asstem me et an tiny order there is an inhibit on as in the case of saponin but in the cell lysin serum system three is an acceleration. The ep plana from of the latter is based on the observation of a smilar occurrence when the lysin is of the fixem lytudge.

If a weak solution of dye; added to washed cells there is noly sis even though the dye; is stell harmost plue. But if the cells are washed until no dye comes away and the serum is then added there is riped lysis. Accordingly it is to be assumed that the cells were sensitized with small portions of dye absorbed to the cell envelope ard that v hen the serum is added a new lysis is formed which is farmofities of the cell envelope ard that v hen the serum is added a new lysis is formed which is farmofities for sensitized cells.

However the sensitive terms amount of the protein s albed that it a smaller amount of the protein s albed that can be calculated from Expression r h in simple homolysis the entire kinetics can be solved in terms of E pres ions I and 2. The phe nomena with bite salts are identical with those observed with brilliant green the taurocholate re

placing the die as a sensitizing agent although it is himolylic by itself. The sensitization seems to be due to a loose combination of the bile salts with the cells and the lysis following the addition of serum to the formation of a new lysin as a result of the union of the combined taurocholate with added proteins. The reaction is influenced by inhibition phenomena or secondary reactions the effects

of which require investigation. In cell complement shure and systems the complement should be added to the cells first and the to allowed to stand for a bort time. The subsequent addition of silicic acid will then bring about a rapid hysis. When the maxing is done in this order it i interestin, to note that if a constant amount of silicic acid non little in itself is added to systems containing increasing amounts of complement an increasingly rapid hysis results until a certain maximum is reached. With greater amounts however justs becomes slower until there is none at 1981 see before some containing increasing the solution of the

These maxima possess a special property which greatly simplifies the kineties of the system for the ratio of complement to silicit acid at any maximum 1 always constant. When complement and silicit acid are added in the ratio which gives the maxima and are present in certain proportions. I sus proceeds as if it were a simple hymolysm.

When too much complement or silicic acid is used the lisis 1 slower than at the maximum We know however that the slower lisis is the result of a reaction very similar to the inhibition of

a simple lysin by serum

If there units of sluce acid are added to one unit of complement two of the added units cannot combine to form the hism as there is insufficient combine to form the hism as there is insufficient combine to form the hism and render it mactive as it is formed Ercess of complement acts in the same way. Only when there is no excess of either component is the newly formed hysis free toact without inhibition. Romarn M Garra M D

nor, on white rats and assister employed in studies of purpous hamorrhages as the series of too for purpous hamorrhages as extended to setter as two setters as the sentire as the setters as the setters as the setters as the setters

A number of other methods for determining blood coagulation time are discussed. In 1911 Cohen reviewed thirty-one methods of determining the coagulation time of the blood. Ten of these required the drawing of blood into capillary tubes. Cohen considered the Vidais modification of the Brodie and Russell method most accurate at that time but this required a special instrument and was toge com-

pheated for general use

Lee and White in 1013 described a methol 1 which was simple and apparently reliable. One cubic centimeter of blood was removed from a ven by a sterile swringe and placed in a spall sterile tube cleansed with physiological saline solution. The time of withdrama 31 and note: Exercit harry seconds its reached when the blood no longer flowed hur main transfer when the tube was in verted. This methol required a vein punct, re and more blood than most of the popular methods:

The authors method is simple requires a minimal amount of blood and gives the opportunity to deter nine retractability. Its chief defect is that it requires considerable practice to determine the endp. it

Capillary lubes 3 cm long and having an internal danketer of lorum or to 0.3 mm are used. The lun is carefully delansed and dired by the use of alcohol and other. The puncture is made ufficiently deep to obtain a line flow of several drops of local look of the local local and local local

The time of puncture is recorded. After an average men of somewas and forts, four seconds as the oparuse line appears bett cen the blood and the wall of the tube. After about four matters and affects second, a serrate outline gradually, appears and the comes sider. After about eight manutes the blood begins to retract from the walls of the tube. This is considered the congulation time. The retraction continues for about thirty five to forty five minutes of the continues of the

The a grage etraction time for normal persons is thirty six minutes

Ha old M. C. as M.D.

thirty six minutes II

L rsell O Jones \ W. \okes H T and Phillips
B I The Hæmatopoletic Effects of Intra
venously Inject d Nucleic Acids J 4m H
6 o 1xx 68

Nashed nuclei from the red blood cells of the foil when injected intravenously in a normal

rabits produced matled harastopoetic starton. The 5 toplasm of the red cells of the foil 7 to 8 the 1 toplasm of the red cells of the foil 7 to 8 the the mod 1 were armost 1 to that part of the cell contact the cell contact of the harons had not produce a manapopetic stimulation. The mass true also the correspon top part of the eff throcytes from the horse and the dog uprich and rabits.

velere acids (and nucleoproteins) obtare i from the washed nuclei of the red blood cells of the fost when injected intravenously into normal rabilities and into animic human beings produce I a himstoporetic stimulation is milar to that resulting from the

injection of the nuclei themselves

Sourcessor uniform tremserver as the solution to the solution to solution to solution to solution to solution as the solution of approximately his amounts. This depres a ras of several dars duration One human paties who had been spienectomized more than a very prior to the treatment showed very similar effects lasting several days. It appears therefore that the spiene has a 12rt in as similaring the injected nucleic and the solution as a solution as the solu

acids but how this is done a not clear Aucleic acids administered in small amounts appear to serve as hematopoietic stimulants in anamic human beings as well as in normal rathits

but the effect is temporary
HO SARD A MCKA GRY M.D.

Pond r F The kinetics of the \ rious Hamolytic

The author of scusses first a simple harmonic salem such as he na kno nyinn nko no nyi tith scus on sashel red cells in the alsence of status or he ho toold accelerate or inhigh the reaction which results in his ses saccompand by the unit up of saponin and combination of the lysm: the sure component of the red cell in edge Tou is con-

s dered c rt inly protein in Tature

Two algebraic expressions have been worked out the fir trebasting to the electric of the funcamental reaction and the second grant her elievations are the second grant her elievation to the treatment band at any moment from the bear and of the reacts n until the stage of complete has object as accordingly to 1 found not from one extremely to 1 from the samplaneous schotten of Extra second to the second from the samplaneous schotten of Extra second from the samplaneous schotten

And the state of the simultaneous solution as and shaped one on his get as the niter of cells have done or which get as the niter of cells have obliged as any stage of the permetty white fundament i secute in a stead of a single distribution of the state of the sta

operation the patient should be allowed to sleep until 7 a m and then given a glass of hot water. The usual morning toilet-cleansing of the teeth shave in etc -should be carried out. In the author's cases egr of morphine and 1/100 gr of atropine are given hypodermically one half hour before the opera tion. The skin preparation is done the day before the operation

This preparatory treatment gives the patient the best chance for a good night a rest before the opera tion and brings him to the operating room in the best

pos_ib e frame of mind

The clearing up of focal infections in the mouth throat or no e is of great importance as the adminis tration of the anæsthetic through passages full of

bacteria i very dangerous When the stomach or small intestine is to be opened a milk diet hould be gi en for one or two days before the operation. If pyloric steno is is present it is advi able to wash out the stomach the

n ht before the operation

In cases in which an operation is to be performed on the bile passages the author gives 10 gr of bexamine three times a day for a week and when Jaundice is present he gives 5 c cm of a 10 per cent solution of calcium chloride intravenou ly daily for three days to increase the coagulation time of the blood Frequently a glucose solution containin 40 gm of glucose and 4 gm of sodium bicarbonate in a pint of water is given by rectum

In cases of perforative lesions requiring emergency surgery a full dose of morphine is given at once and the patient kept warm until the first shock has decreased (usually one or two hours) When this is done he is rendered better able to withstand the

shock of operation

In acute appendicitis in children glucose solution is given by rectum while the child is being prepared

for opera ion

The efficacy of preliminary wa hing of the stom ach in cases of intestinal obstruction is questioned as the stomach immed ately fill up with the dark regurgitated fluid In such cases spinal angesthe sia is preferable to inhalation anaesthes a as in the latter there is danger of vomiting with the aspira tion of foul liquids into the lungs

HUROLD M C Mr M D

Rost Newer Viewpoints in P e Operat e and Post operative Manag ment (Ne Ges ht p kte be d Nor i Nehb ha dl g Op n t) st F e d e tich G s f Ch B lim 927

Rost first reviews the deaths occurring in the last four years in the surgical di ision of th Mannheim Hospital Of 15 460 patients admitted in the period from February 1 1923 to December 31 020 867 (56 per cent) died One third of the deaths were d e to infections and wounds one third to make tant tumors and tuberculosis and one third to pentonitis and stomach and gall bladder operat ons The fact that 10 per cent of the deaths in the last group were cardiac deaths indicates that there is

need for a better estimation of the state of the circulation before operation Therefore in the last nine months numerous heart function tests (Schrumff Goenczi Mosler Katzenstein and Kauffmann tests) have been tried out on patients to be treated surgically on the author's ervice. The type of test and the results are shown in tables and curves With the aid of these tests poor cardiac function is recognized more frequently than before A heart with poor function should be treated with digitalis before operation. Haphazard digitalization. is to be avoided as it is dangerous

The newer heart remedies are di cussed briefly The importance of camphor in the treatment of pneumonia of quinine and quinidine in Basedow's di ease of adrenalin and strophnon in sudden arrest of the heart action of stry chaine and caffeine to cause vasoconstriction and of amyl nitrite nitro gly cerin and papaverine in high blood pressure is

Mention is made of the marked increase in em bolism in recent years which was especially great in November and December of 1926 and for which no definite cause has been found. That certain types of persons are predisposed to embolism could not be establi hed The Trendelenburg operation s as done in se eral instances but always too late

With regard to postoperative pneumonia the difficulty in the evaluation of the newer remedies is cited Pneumococcus serum afenil injections of ether and autogenous blood carbon dioxide inhala tions and \ ray treatment are critically discussed Up to the present time there is neither a sure prophylactic nor a sure curative agent

Rost discu sed next the changes in the acid base equilibrium and the synthesis of protein bodies after operations Acidosis is not harmful in itself being like di turbances in the metabolism of pro tein merely an indicator of a marked disturbance in the body economy The recommended infusions of cluco e with and without insulin and the admin ist ation of soda do not influence postoperati e metabolic disturbances but are of value in prevent ing a diminution in the gly cogen of the liver When there is severe vomiting sodium chloride must be given to replace the lost chlorides

Innovations in infusion technique (continuous in travenous drop infusions) and hunger and thirst and their consequences (thirst fever of children signs of cerebral irritation) are discussed. The administration of fluid is of the greatest importance Preparation of the intestine (strong cathartics are contra indicated) and the use of agents such as cholin hypophysin pituglandol and pituitrin to combat postoperati e ileus are of importance Too quick stimulation of the bowel is to be avoided The preparation of the mouth is still poorly done

The relationship between physical and mental states (shock fear ps) choses dehrium anxiety and their consequences) the influence upon the patient of his surroundings (color of the sick room) and the proper use of sleep-producing and pain relieving

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Hagenbach E The Operability of Infants (De Operabilitiet des Sa ugings) is h f hi Ch 1927 calv 635

With regard to the indications for early operation on ulants for conditions not immediately engaging file a differentiation must be made between those conditions which may threaten life more or less suddenly in the course of time—such as pyloro spin and hermin with a tendency to become in circerated—and those which though not dangerous gradually become noise—such as adsistant of the gradually become noise—such as adsistant or of the three conditions the carried and the conditions the carried three conditions the carried three conditions the carried three conditions such as unabhella and inguinal herms diluted of onceation gives a chance for spontaneous curry of one categories.

Hagenbach revens the cases of eighty too children under 10 month of age who ners subjected to various major and minor operations on the surgical service of the orthopetic chine of Basel during the gened from 0 tober 1920 to October 1926 til most all of the deaths are due to conditions usually regarded as fatal such as ectopia of the bladfer unblack hermat actents of the mass and mystem attention of the mass and mystem and the second of the second

The early operations especially the e for herms were performed on the basis of the generally recognized midcations. In St titerland herms in adults are so common that the chances for a cute are not regarded as favorable. By questioning the p. t. is moth r the author has frequently been able to trace such herms back to infance. The difficulties caused by unbluch them are often over estimated but the other extreme is all to be avoided. The constraint entire that the same and expense can be all herms it trouble some and expense can when it is successful there is no certainty as to the permanency of the results.

The author always operates with the patient under mixed narcosis fether-chloroform with the use of the Braun apparata.) The is well borne by infants. In the cases reviewed, three unto ard is at lents occurred but they terminated favorably. Hemorrhage is borne as well by infants as by

others but great care is neces any to spare the t u s. Hagenbach has not observed any senous disturbances of wound bealing or of the d gesture or re piratory tracts. For judging the patient s condition several days of observation are necessary funnectionary purgue is to be avoided. The author

autires the skin with categit. In the cases of reless children the administration of several drops of pantiopon 3 mp. 3. Same thermful than the children struggle agrees being the barmful than the children struggle agrees being the barmful for acceptance of the the bronchair kettle should be acceptant processing the bronchair kettle should be agree of the processed of the used injury to the gapter of the concaused by the narrow, Happenback keep hap to of the used layer to the gapter of the concaused by the narrow, Happenback keep hap to of the usually leave the chare with a gapt in seepth these usually leave the chare with a gapt in seepth.

Mitchell H E M The Preparation of Patients for Operation Land 1927 text 27

The many changes which have been ma'e in the last few years in the preparation of patients for operation have been an important lactor in the reduction of operative mortality and the hastening of convilescence

The author desapproves of routine purgation with castor oil or other drastic purgatives. Castor oil is strong irritant an ileaves the intestinal tract in poor condition for the mechanical work to be done by a surgeon. Its use is particularly final gable there fore when an intestinal operation is to be per formed.

The most serious objection to the use of cation of is the nectia following the parge. The author be lieves this is a factor in the development of port operative lease. Purgation inneferrer slips with the patients rest the might before the operation when sleep is most essential. The danks antages of impartion before operation have no counterbalizing advantages.

It is not necessary to starte the patient before operation as has formerly done. Startation freds poses to sciedosis or lowering of the alkah reserve in the blood. It seems also to layor postoperative

A general routine examination of the patient le fore operation is e sential Examination of the heart lungs urine and nervous system and a test of renal function are ad asable in all cases

of renal function are ad asable in all cases

If it is possible to delay operation for a sufficient
length of time it is advisable to clear up foct of in

length of time it is advisable to clear up foct of in fect in in the teeth and tousils.

If necessary paradin oil man be given didly for se eral days before the operation to insuce a corral

boxel mo ement
Visitors should be excluded from the pa c ts
room after 6 p m and the patient should retire
early. The nu se should be informed of the proposed

technique in order that she may give the proper cooperation. Liquids should be go en freely during the pre operati e period and a light supper should be given the night before the operation. On the day of the had twelve of his own Psychic disturbances are more common in males than in females In females their incidence is greater after gynecological opera tions than after other surmeal procedures Children are very rarely affected. The condition is most fre quent in the fourth and fifth decades of life A dis unction must be made between true and false psychoses In frst group affections of the brain centers or hamorrhages are not included false psychoses are due to febrile diseases poisonings (iodoform) intoxications (intestinal obstruction) and similar conditions. Two thirds of the cases be long to the mame type and one third to the melan cholic type with a tendency toward suicide. It is not always necessary to place the patient in an institution. The treatment can usually be only symptomatic Of chief importance is the prevention of such disturbances by careful determination of the patient's family history and any previous psychic disturbances in his own history Care i necessary in operating on patients who have much anxiety before the operation

ROHDE (Duesseldorf) discussed thy rotoxicosis and operative treatment. The operation affects not only the organ in olved but also the organism as a v hole Of particular importance is the function of the en docrane glands and the condition of the ner ous The function of the sympathetic nervous system and that of the endocrine gland are in terrelate! The condition of the sympathetic and parasympathetic must be determined. Of importance 1 the determination of the basal metabolism Before the operation the administration of calcium quinine preparations phosphorus and po sibly small amounts of todine is indicated Cardiac and circulatory disturbances must recei e attention In thym enic di turbances a pre operati e and possibly at o a postoperative roentgen treatment of the thymus is indicated The liver and kidneys hould be tested and if necessary treated before operation The surgeon must cons der all these points and strive to improve the general condition Bien (Berlin) stated that he has ne er recom mended ether injections in pneumonia nor for the perention of bronchitis After the development of bronchitis however he recommend their use as ea ly as possible

Nortzhonev (Lennuy) reported on 100 intestal flushings with the subanqueus nema (Sudabad entrodeaser). The apparatus has been 30 per fected that the panien has only ver slight defaulted the panien has only ver slight defaulted the panien has only ver slight defaulted the state of 11 If pro luces a more competition of the produces a more competition of the produce a more competitive that the slight defaulted in the slight defaulted that the slig

LOTHR (kiel) called attention to the gastric and tatestinal disturbances which frequently occur

three or four days after gastric operations and not rarely lead to a fatal outcome following a profuse diarrhea. He attributes them to the diminution of hydrochloric acid after the operation and the consequent ascent of the colonic flora to the stomach Hie compared these conditions to the dyspessas of infants which can be relieved by an antibacterial diet of acid milk buttermilk and rice water and recommende I similar feeding to prevent their occur refine.

Paugeau (Berlin) mentioned the importance of card stimulation of peristalsis after laparotomies. He does not approve of pre operative bo of flushings and evacuations because he is of the opinion that the full colon begins to act more readily than a colon that is empty. He therefore gives a diet rich in roughage before operation. For stimulation of per istal is he uses a me remedy called C 25 which is made by the I G. Die Industry.

MELER (Coettingen) aroed against the unneces sury use of digitali before operation. In the cases of healthy persons he has noted after its use an extrasystolic irregularity which is probably to be traced to the vagus. He is skeptical recarding Lochr's plan of influencing the bacterial flora by diet.

KILIAN (Duesseldorf) pre ented a record made in an experiment on animals which shows the course of histamine shock in all its phases. There was every degree of disturbance of the bundle of His up to complete dissociation Besides the electrocardio gram Lilian showed the blood pre sure and respira tion records the latter made with his own pneumo tachometer after the principles of I leisch and on the basis of Poiseuille's law. These also showe I very marked changes From this it is evident that disturb ances of the bundle of His play a more important tôle in shock than was formerly assumed and that the lowering of the blood pressure with stagnation of the blood in the splanchnic vessels and possible loss of tone are not alone responsible for the poor out come in shock. A second film showed very marked changes in conduction an electrocardiagram greath changed by repeated extrasystoles and a markedly changed blood pressure curve and pneumatotachogram after slight overdosage of adrenalin which pointed to the necessity for greater care in the ad ministration of the drug This shows us how poor our knowledge is as to the proper indications and dosage of preparations in card ac disturbances at surgical operations

"SUBLEAGE. (Elberfeld) recommended getting the patient out of bed early siter operation and implained to to bed early siter operation and implained the importance of the early massage and exercise. In the period from 100, 10 injoin before he ob erived these principles the incidence of throm 100, 11 injoin 100, 11 injoin



Mid Rhine Obstetrical and Gynecological Society in December 1025

In 53 per cent of the cases of postoperative deep thrombosis of the veins of the thigh there was sluggishness of the circulation secondary to disorders of the cardiovascular system corpulency or post operative pulmonary complications. In the cases of postoperative embolism sluggishness of the circula tion was a factor in to per cent Eighty one per cent of the deep thrombi of the veins of the thigh and 75 per cent of the puerperal emboli occurred in patients who for some clinical reason could not be gotten out of bed sufficiently early To prevent post operative and puerperal varicose thromboses it is necessary to supplement early getting out of bed with immediate bandaging of the legs

The greater incidence of embolism after vaginal operations is due to the relatively greater danger of embolism after interposition operations which are frequently performed in the clinic In the period of time reviewed other vaginal operations such as colporrhaphy colpoperineoplasty and vaginal total extirpation were never followed by embolism

In the puerperium thrombosis and emboli m are most apt to occur after uterine tamponade and manual separation of the placenta After cæsarean section the incidence of thrombosis of the veins of the thigh was 29 per cent and that of embolism o 6

In the cases of deep postoperative and postpartum thrombosis of the veins of the thigh an infectious cause was demonstrable in 62 or 63 per cent whereas in ca es of superficial thrombose infection was a relatively rare factor Thirty six per cent of the emboli followed aseptic lumbar anasthesia and 6

per cent followed ether anasthesia No influence of the time of year upon the in eidence of thrombosis and embolism could be estab lished with certainty Increasing age seemed to be an important factor

ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

HATE Y(G)

Uston W G Introductory Rema ks on a D s cussion on Vaccine Therapy Fd b gh M J

Although vaccines have been employed for the prevention and cure of disease for more than a quarter of a century there are still those who hesi tate to use them On the other hand there are others who employ them to cure all manner of ail ments oblivious of the fundamental principles that govern vaccine therapy

I vaccine must be made from the particular species of bacterium that is the cause of the di ease t be treated. The importance of thi fundamental principle was well demonstrated in inoculations aminst enteric fever in India when it was found that in the cases of persons who contracted the in ection in spite of inoculation the organism in the bood differed in some respects from the typhoid

bacilius of Eberth The atypical strains were sub sequently designated paratyphoid bacilli t vo of them were called respectively phoid A and Paratyphoid B Since 1016 a typhoid vaccine has been prepared which contains not only strains of the typhoid bacillus but al o strains of Paratyphoid A and Paratyphoid B This vaccine has come to be known as the typhoid or TAB vaccine

A vaccine must be prepared in such a way as to produce a maximum antigenic or immunizing effect accines are generally made from cultures grown on agar The organisms are emul ified in carbol saline solution and killed by exposure to a temperature of 60 degrees C for half an hour This procedure has been adopted because it is the mot convenient method of making the vaccine so that the number of organisms it contains may be counted. A vaccine is counted in order that it may be standardized However we kno that in the case of plague a vaccine prepared from a broth culture group for some weeks (in which it is impossible to count the number of organisms) is superior to a vaccine pre pared from a culture grown on agar We know also that a vaccine killed by exposure to a temperature of 53 de rees C for ten minutes is superior to one exposed to a higher temperature for a longer time Moreover the greatest protection against plague infection is secured from a vaccine which has been prepared from a virulent strain of plague isolated from the body as recently as possible

In the prophylactic use of vaccine the object to be aimed at is the production of the maximum protection with the least risk to the patient and the least incon emence to both the patient and the inoculator There is evidence that two doses confer a higher degree of protection than one dose. In Britain two doses are given in inoculation against

enteric fever and in America three doses

The vaccine dosage in the treatment of disease is a matter of vital importance and very difficult to determine When a disease has developed the patient has already in his body a quantum of bacteria with which he is battling Therefore the dose used must generally be less than the prophylactic dose and in inverse proportion to the se crity of the infection It i good practice always to begin with a small dose and increase it more or less rapidly as may be indicated by the response to the i oculation When the suitable dose has been at tained it should be continued until it fails to produce the proper response

Another fundamental principle of vaccine therapy is based on a knowledge of how batteria protect themsel es against destruction in the tissues of the host Every effort must be made to bring the im mune substances circulating in the blood after inoculation into intimate contact with the bac teria Areas in which bacteria can lie protected from these substances must be opened up and drained and suppl ed with as free a flov of lymph as possible

SET LIGHT (FIRIDUE) reported the good results has obtained by the administration of cathod his outer life has the patient inhale carbon dioude for from three to five muniter after the narrows white the skin is being satured. The depending of the respiration thus brought about is favorable in every say and the incidence of astro intestinal atony and kinder, injuries has been decreased.

LAEWEY (Marburg) reported that he had ob served the recurrence of an embolus of the pulmonary artery during an operation for pulmonary embolus The heart which had already ceased beating was brought back to function by aspiration of blood from the right ventricle the injection of adrenalia and cardiac massage Suddenly how ever the right ventricle dilated again and the heart ceased beating permanently Autopsy revealed a new embolus i hich had probably entered the pul monary artery during the operation. To prevent such an occurrence Laewen advises momentarily releasing the clamp and ligature on the pulmonary artery to permit the blood to spurt from the right ventricle and thereby wash out any remaining blood clots STETTINER (Z)

Algla e P Dermo Epidermal Grafting en godets (La g sie d mo-épide mique en godets) J d ch 1927 xxix 639

Algases method of gratting while based upon that of Reverdin offers from the latter in that the grafts composed of both dermis and epiderms are inserted into inches or godets of corresponding size cut from the granulation tissue. This pare ents the grafts from being rubbed off and insures them ample no analyment. Both graft and godet are cut from a compart. If the laver of granulation issues is thin a surface flap may be left to cover the graft for still better protection.

The best results are obtained with sutogenous grafts taken from the engunal region Both wounds are dress d with sterolized chilon talk (prepared with lasseed all) and then covered with gaues and cotton. The dressings are reserved dain, the wounds first been was the first control of the surface of the surf

Titus P and Dodds P The Common Cau es and the Prevention of Reactions F llowing In traveno s Injections of Glucose (Dextrose) Solution Am J Ob t & G C 19 7 xx 8

Reactions following intravenous injections of glucose solution are issually due to (1) the use of impure glucose (7) the use of ome fluid other than fresh), distilled uncontaminated water to dissolve the glucose (3) the improper preparation and sterilization of the solution and the apparatus for its administration of (4) the administration of the glu

cose either too rapidly at too low a temperature or

To insure good results from the intraseous as ministration of glucose solution and to prevent in ministration of glucose solution and to prevent in warranted criticism of it as a therapeutic ms at its increasing, in home practice to at the previampoules of factors (destrose) now reads of standble or to have the solutions car full previamble as the conducted laboratory. In hereful, practice as the conducted laboratory in hereful practice and the control of one previous placed under the control of one previous manue of preparing storing and using the factor and the control of its control of the control of its previous previous storing and using the factor in the control of its previous control of the con

Short A R and Fraser A D Lacspected Deaths in the Postoperati e Period P u 31 J 191 i,

The greatest number of deaths in the penol in mechanicly following operation are attributed to pneumonia bronchitis or max in planosary complications before the presentation of particle and duodenal ulcer and gail bladder conditions. In complications are not always due to stryus main of the postoperative deaths from such complications are not always due to stryus main of the postoperative deaths from such complications occur in clean taxes! Pulmonray embolsism basis been diagnosed but rarely found in the case it will be a structured to the second of the se

Cardiac failure is probably the least preventible of the causes of death in the postoperitie period. It accounted for electe of the 100 deaths returned It accounted for electe of the 100 deaths from shock occurred after self-death was the self-death was entirely a especial work of the post of the self-death self-death from shock occurred after self-death of the self-death self-death

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The author has further clas ified and a uded the material reported upon by on Jaschke before t e

organism free bacterial filtrate from bouillon cultures eight to ten days old. It can be produced from staphylococci streptococci bacillus coli and other organisms Perhaps the most correct procedure is the production of an autogenous antivirus but this was rendered impossible by the long time that is required for its production. Most effective appears to be a mixture of streptococci and staphylococci The diseased portion must be brought into im mediate contact with the antivirus It is particularly suitable for compresses irrigations and bathing but its subcutaneous admini tration produced no result In fifty cases (lymphadeniti furuncles panaritium tonsillitis and similar conditions) a cure wa ob ta ned in 30 per cent a favorable effect in 37 per cent and no evident improvement in 33 per cent In the cases in which it was effective the results were striking Pain ceased in from two to four hours and the redness decreased In most of the cases no moision was neces arv

DEML (Vienna) also reported good re ults The use of a variety of bacteria proved most effective Accordingly an antivirus made of fifty different strains of st eptococci was employed. The que tion now arises as to whether this method can be used as

a prophylactic measure

Prizaro (Berha) reported on 250 cases from the Likebr d Clinic in which good results were obtaned. The processes were arrested and healed more quelly in capements on animal with the coccus of repulse it was found that infection did not occur of the processes with the prophy, lact ally, and that we are made was treated prophy, lact ally, and that we are made and the prophy and the prophy ment of infection of the processes of the proment of infection of the processes of the proting of the processes of the processes of the prosent of the processes of the processes from the proment of infection of the processes of the prosent of the processes of the processes of the property of the processes of the processes of the prosent of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the processes of the proterior of the processes of the processes of the proterior of the processes of the processes of the processes of the proterior of the processes of the processes of the processes of the proterior of the processes of the processes of the processes of the processes of the proterior of the processes of t

LOTHEISEY. (Ven 1a) reported that he had been saying the bacterial filtrate prepa ed according to the methol of Bestedka since August and is conv. ced of its 50° fice effect. In true crysipelia and phlebitis be saw no effect. On the other hand he observed in

a phlegmon of the lower leg a striking effect within ten minutes Several furuncles of the lip improved vithin a short time and paparitium and periositiis cleared up quickly Severe an inas improved in a short time following application by painting Lo theisen urged further testing of the remedy Settituck (Z)

ANÆSTHESIA

Cabot II and Ransom II k Fthylene as an Anæsthetic for Gene al Su gery A S g

Cabot and Ransom revie their results with the use of ethylene as an anxisthetic in 11 60° clases. In agreement with the numerous reports that have been published in their by others they conclude that ethylene has all the advantages of introus roude and oxygen gives greater relaxation and does not cause objectionable exanosis. As it ill not produce complete muscular relaxation for operations on the upper abdomen it is indenor to ether or chloroform as a general ana. State to but it may be combined satisfactorily vith ether v hen greater relaxation as required.

The blood pressure readings show an average rise of 7 per cent but return to normal in the first half hour of anasthesia. An apparent increase in

half hour of anæsthesia. An apparent increase in bleeding at the beginning of the operation may be related to the initial ri e in the blood pressure.

The druger of 1 mitton or explosion of ethy lene may be avoided by ackel diames and sparks I om the operating room. The apparatus must be cared for to prevent the accumulation of inflammable deposits. The present requirements of a cumbersome apparatus and a trained anaxishetist make it unlikely that ethylene will supersede ether or chloroform for use outside of hospital but for general ho pital procedures it has out tanding advantages. M villa Edicitivistic MD

It must be borne in mind also that vaccine therapy has a limited field of application. It is applied most successfully to the prevention of di case the treat ment of localized infections and the treatment of the earlier stages of acute infections

1 THONY I SHE WID

Gaza on and B andi The Bases and Result of Athalinization and Acid ficati n in Surgical Inflammatory Conditions (G u dlagen u 1 Fr f lg d t Alkal eru gu d Sa uru g bei ch rurg sch entzuendl che Frkes kung n) se T g d d its k G s i Ch _ Be 1 1927

according to investigations made by Herrmanns dorf in the Munich Surgical Clinic an acid diet has a favorable effect and an alkaline diet an unfavorable effect upon the healing of wounds Von Gaza and Brands attacked the problem from a d flerent angle They cured abscesses by irrigating them with alkalies Even large absces es could be cured in this manner Accor hogh there seems to be a con tradiction in that on the one han! acids and on the other hand alkalies are said to have a favorable effect upon the healing of wounds. In Munich acidification and in Goettingen alkalinization is used and in both places good results are being ob tarned

However this contradiction is only apparent. It depends upon the stage of the condition whether act infication or alkalimization is indicated. In a case of roentgen ray ulcer the alkaline solutions stopped the pain whereas the acid solutions were more effective as regards bealing Therefore acril cont presses were u.ed for periods of one hour but in the intervals the ulcer was treated with al aline solu tions In acute processes (luruncle) acid solutions seem indicated but in thronic lesions alkaline solu tion are preferable. In treating with acid solutions

the intersity of the treatment is of importance The authors call attention to the fact that ten years ago Bier attributed the good or poor healing of

wound to wound hormones Following the report SCHNEIDER (Duessel lorf) discussed the prospects of intravenous treatment with a buffer solution. He stated that experiments have sho in that the prospects of obtaining an effect upon the hydrogen ion content of the inflamed tissue with local treatment are very slight and that h le it is possible to alter the hydrogen ion content of the free pus it is not possible to change that of the pus producing to sues 'll o in experiments with the intravenous injection of a phosphate buffer solution it was found imno ible to i iffue ce the hy drogen ion content of the t sues part cularly in flamed tissues by the method Such ing ctio s produce a temporary shifting of the hidrogen in conte t of the blood and an effect upon the album a globula quotient This effect is evidenced by the fact that I hen a buffer solution on the act i ide is employed a shift toward the globul a side occurs and when a buffer solution on the alkaline side is employed a hift toward the albumin ide

occurs On the basis of these investigat ons an travenous therapy with the object of inff . . the hy frogen ion content at the sie of an in flammation i as aban loned as futile

lincisse (Berlin) liscu sed the potas ; mal cium metabolism in normal and inflamed t sag i In the place of Schueck (Berlin) who as unable ! le present at the meeting h reported e neerm investigations undertaken in the this ke Chemistry Institute of the hospital at Liban un his d rection Schueck found as a rule an ag cement between vasoconstriction and the sympathetes tem and between vasodilatation and the para 55 mpathetic or central person system Tre o es tion as to whether calcium or ix tassium has a com pensatory action in the sense of the hraus Zon be theore was substantiated elinically. The re-enquestion as to whether in inflammators cond tion the relationship of potassium an I calcium is a terril b) an increase in the I treet was tested by street an I I incussed on the broadest possible basis. That there is a change in the physicochemical mil u during inflammation-in the bro les sense-is very Probable according to the evi tence of by logical at i colloid chemistry The verification of the however is very difficult because of the different general con ditions of the organism in each ca e an I the dill cuty of obtaining specimens for them cal and he tolog al stuly As a result of the progre s that has been made in method of m croscopy the analysis ricets with few difficulties for the present the in c tigs tions do not justify any de a te conclusi a e en thou h in a series of cases they showed a distinct relative increase in potas um

HERRUAN SPOREFR (Munich) emph ze libat the irrigation of a wound with acid or all aline fit 1 is not to be compared with dietetic treatment effect of the shet a possibly weaker at fir t but is more permanent in acid det has a cleans ng ac

t on on woun is DOERFLER recommended for pus liseases I the skin the use of calcium pho-phate and calcium lactate in powder form In cystopy it he gi es phosphoric aci I fifteen drops in water se eral t mes a day or ammonium chi rate ten paris ! 1 o hun dred parts one tablespoonful thre tunes a da

Bie (Betha) stated that alkaline riaci) uner tions have the same effect because t is r i the i flamm tion which causes the prin but th t "10 inflammat on While he grees that to the d to of scient fe me te ne to test out ev m w we ery he doe not belie e that e erith g depen is upon the bydr g nun n atr t n

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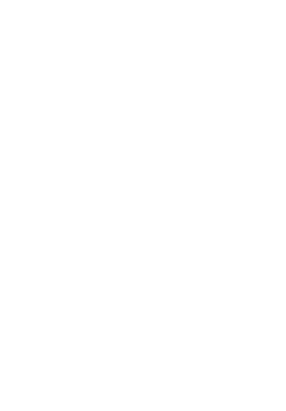
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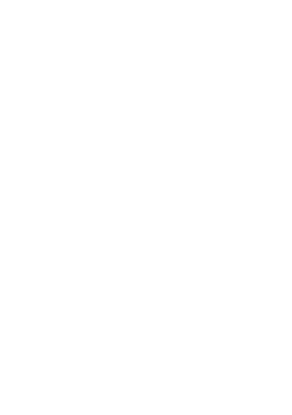
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